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Co-Planar Electrode Configuration

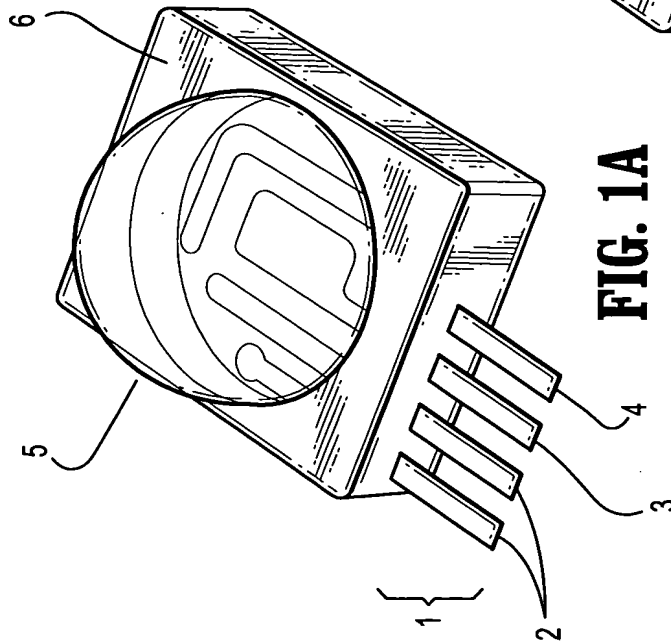
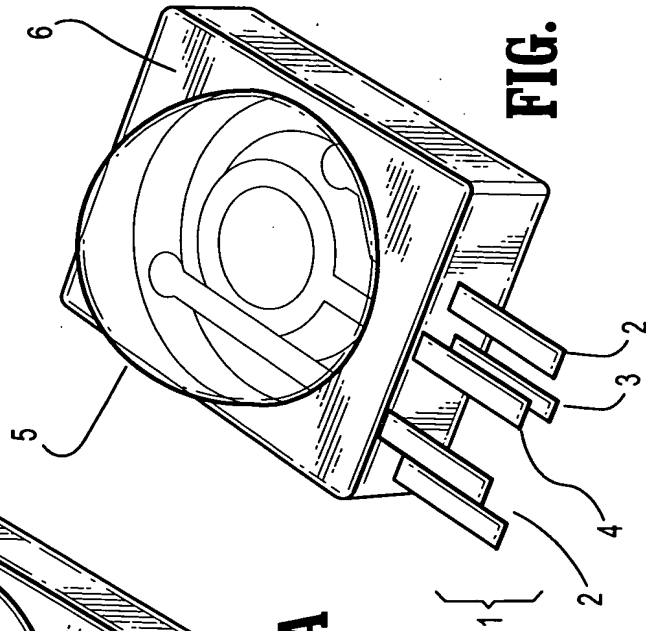


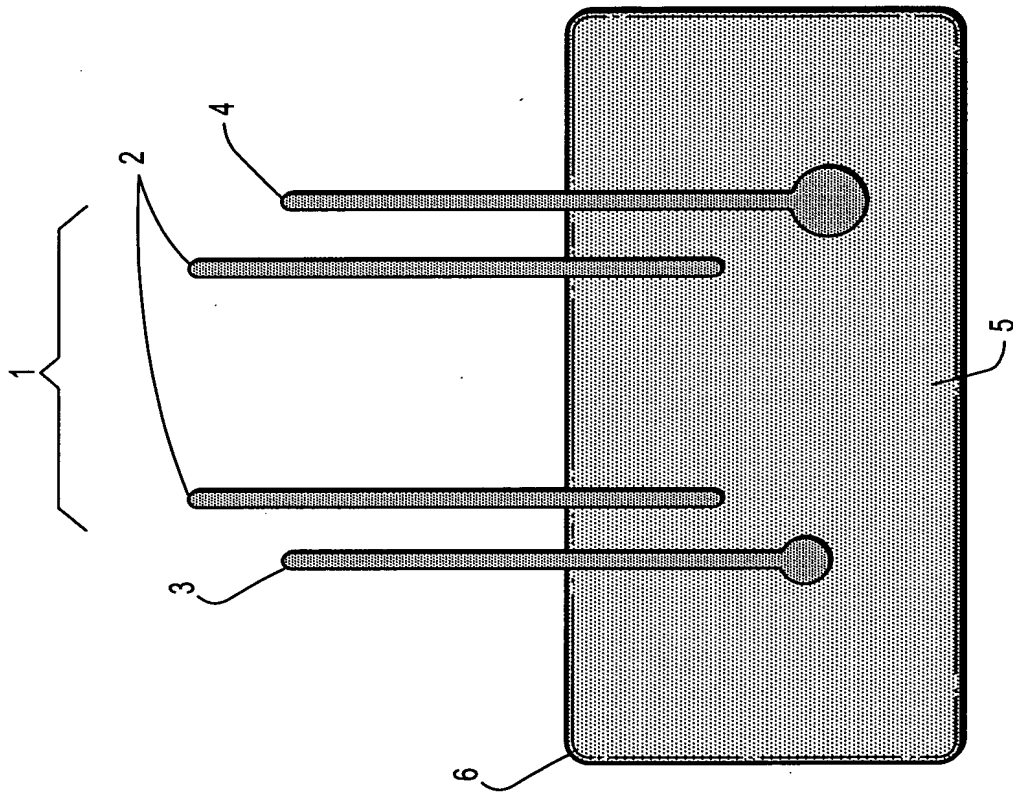
FIG. 1A

FIG. 1B



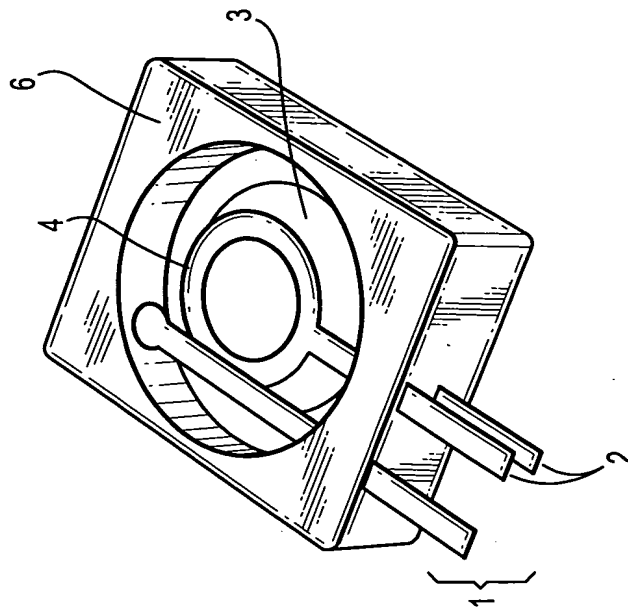
Non-Co-Planar Electrode Configuration

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**FIG. 2**

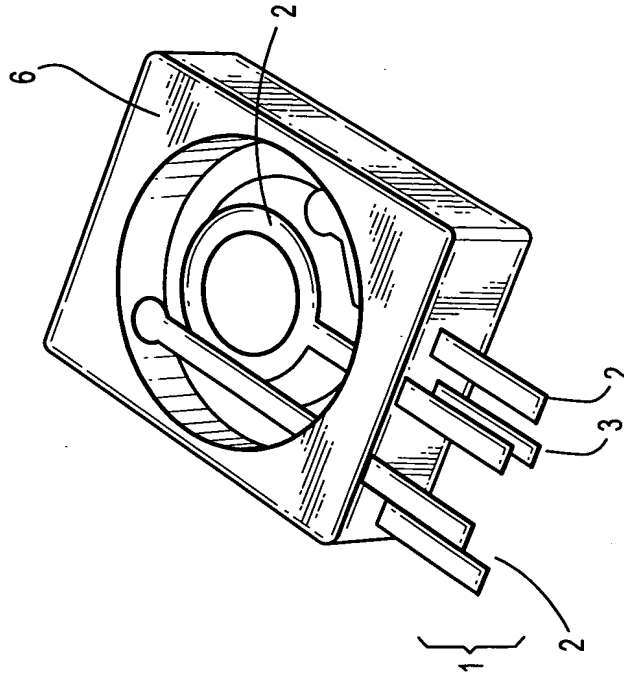
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**FIG. 3**

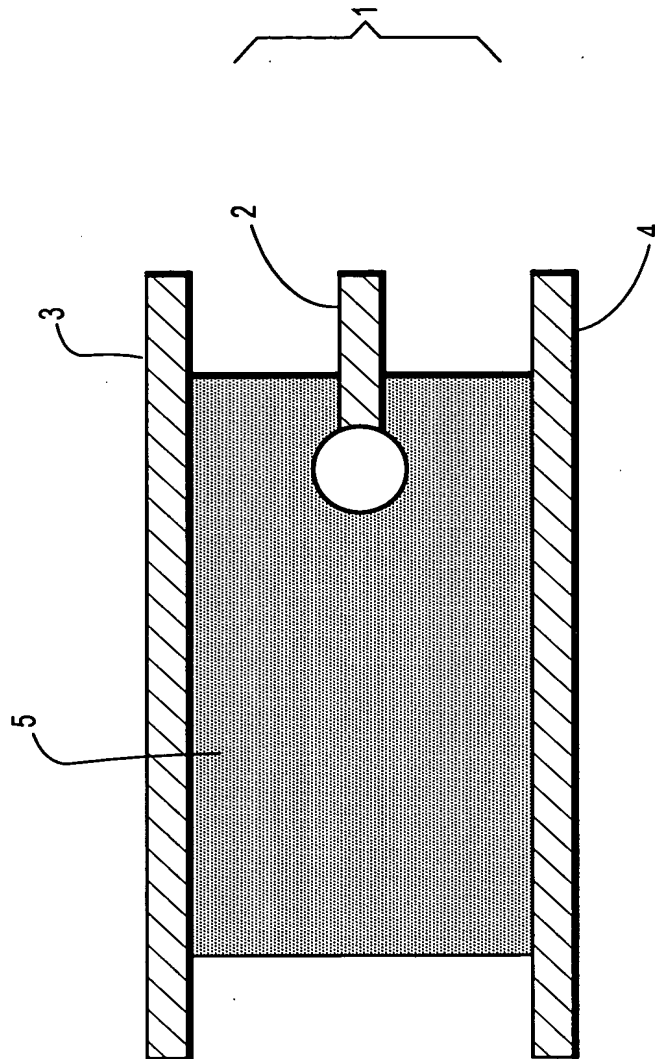


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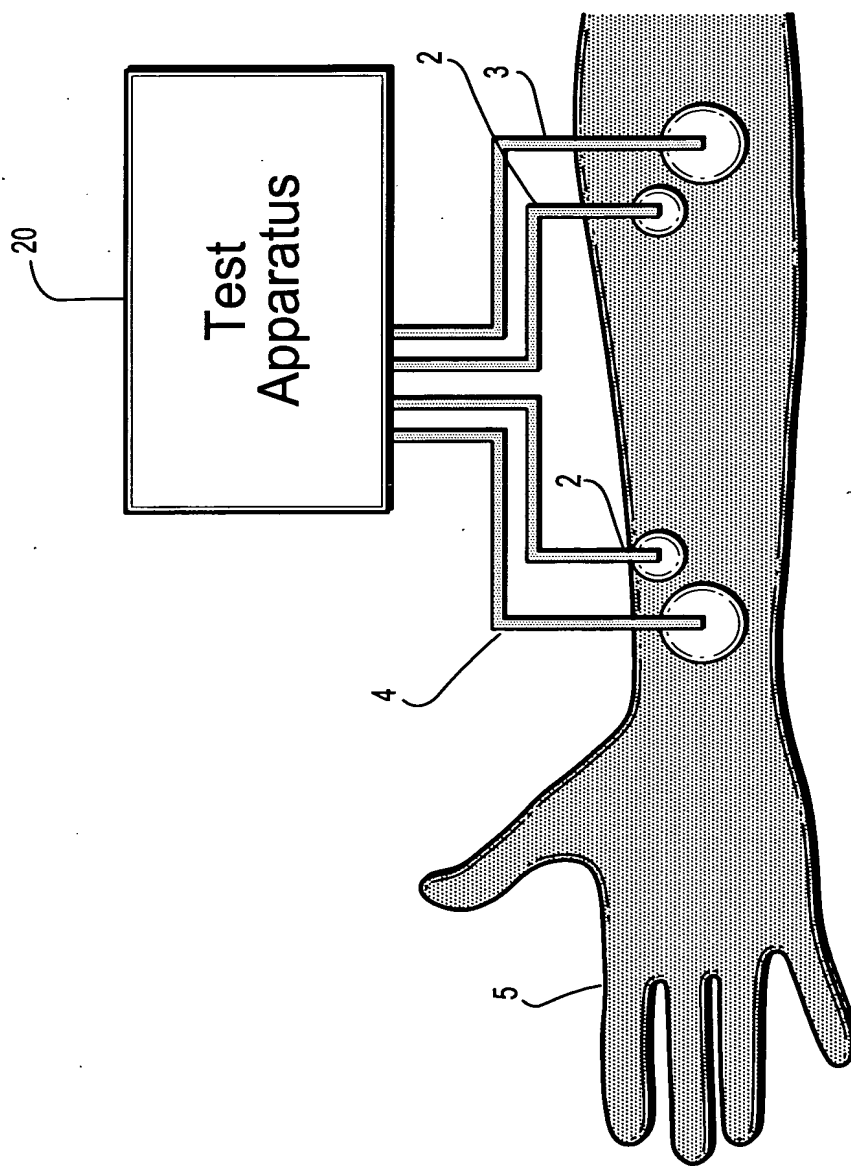
**FIG. 5**

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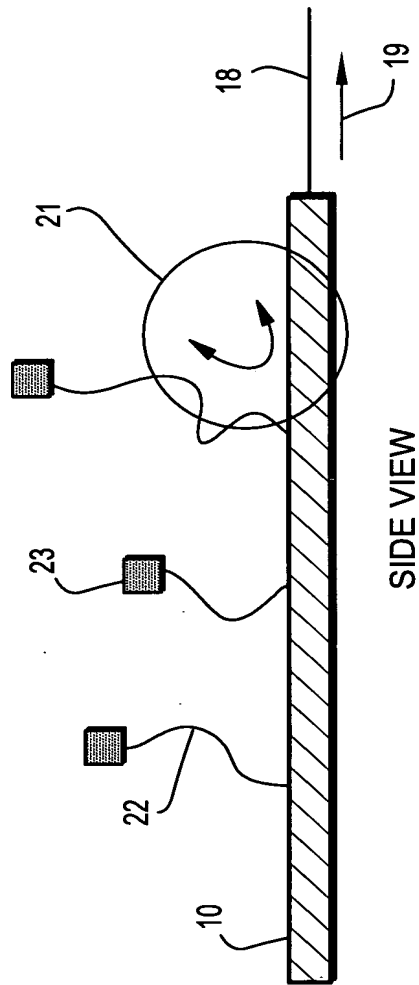
**FIG. 6**

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**FIG. 7**

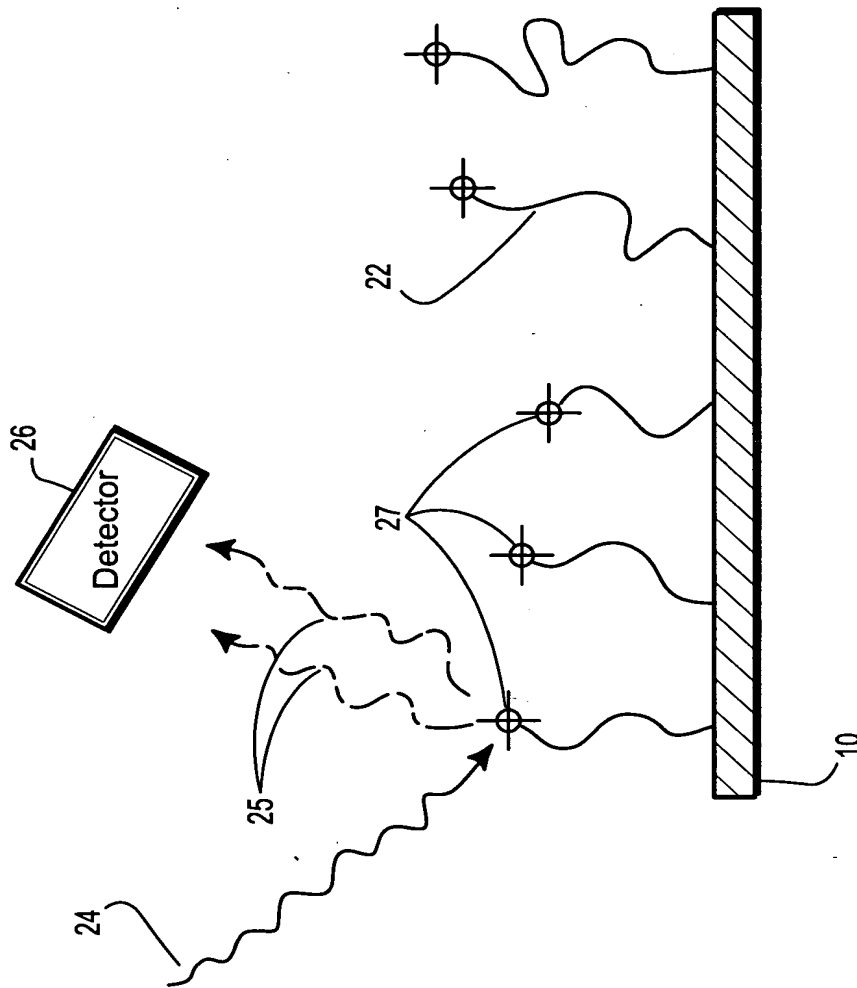
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**FIG. 8**

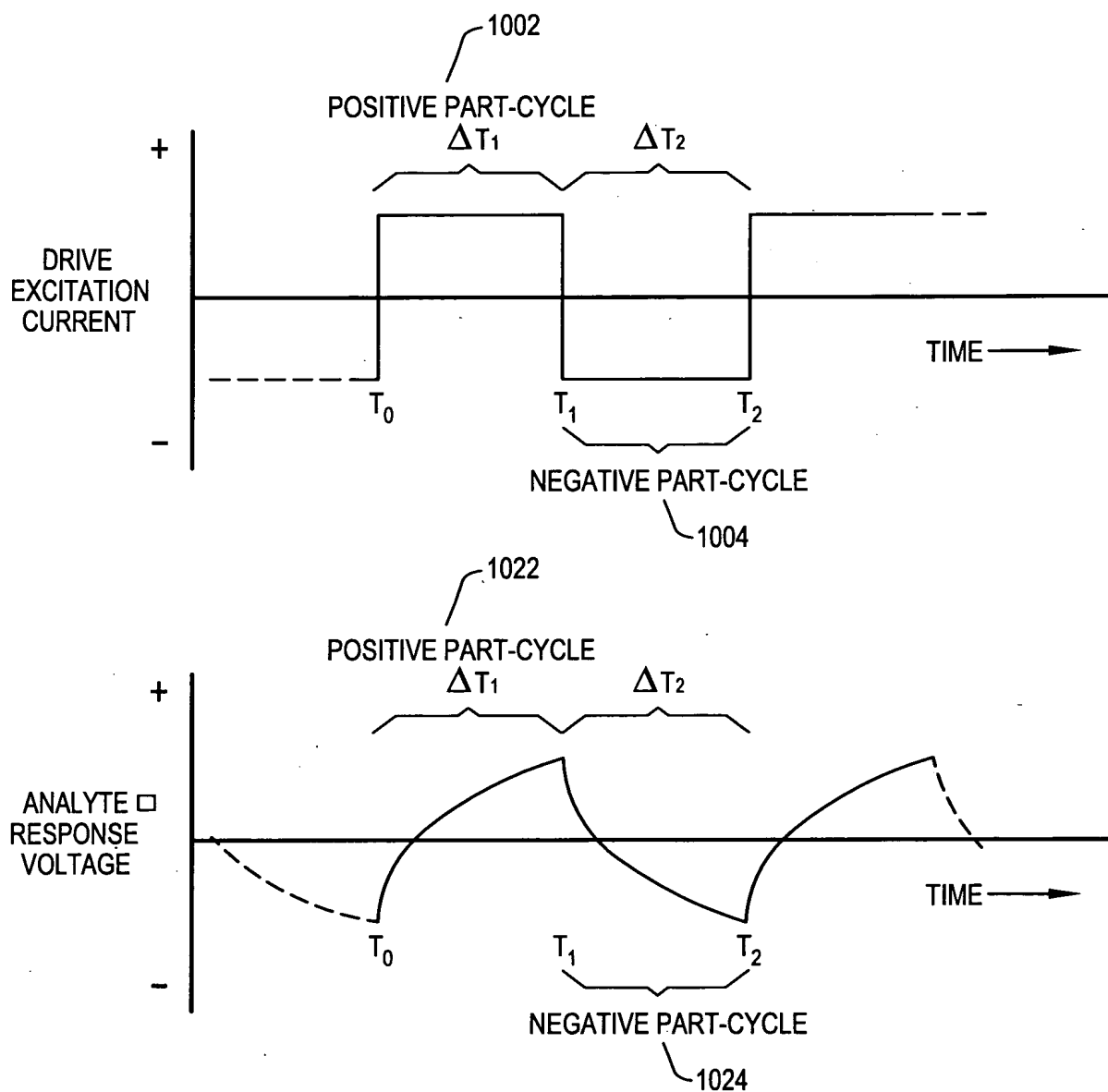


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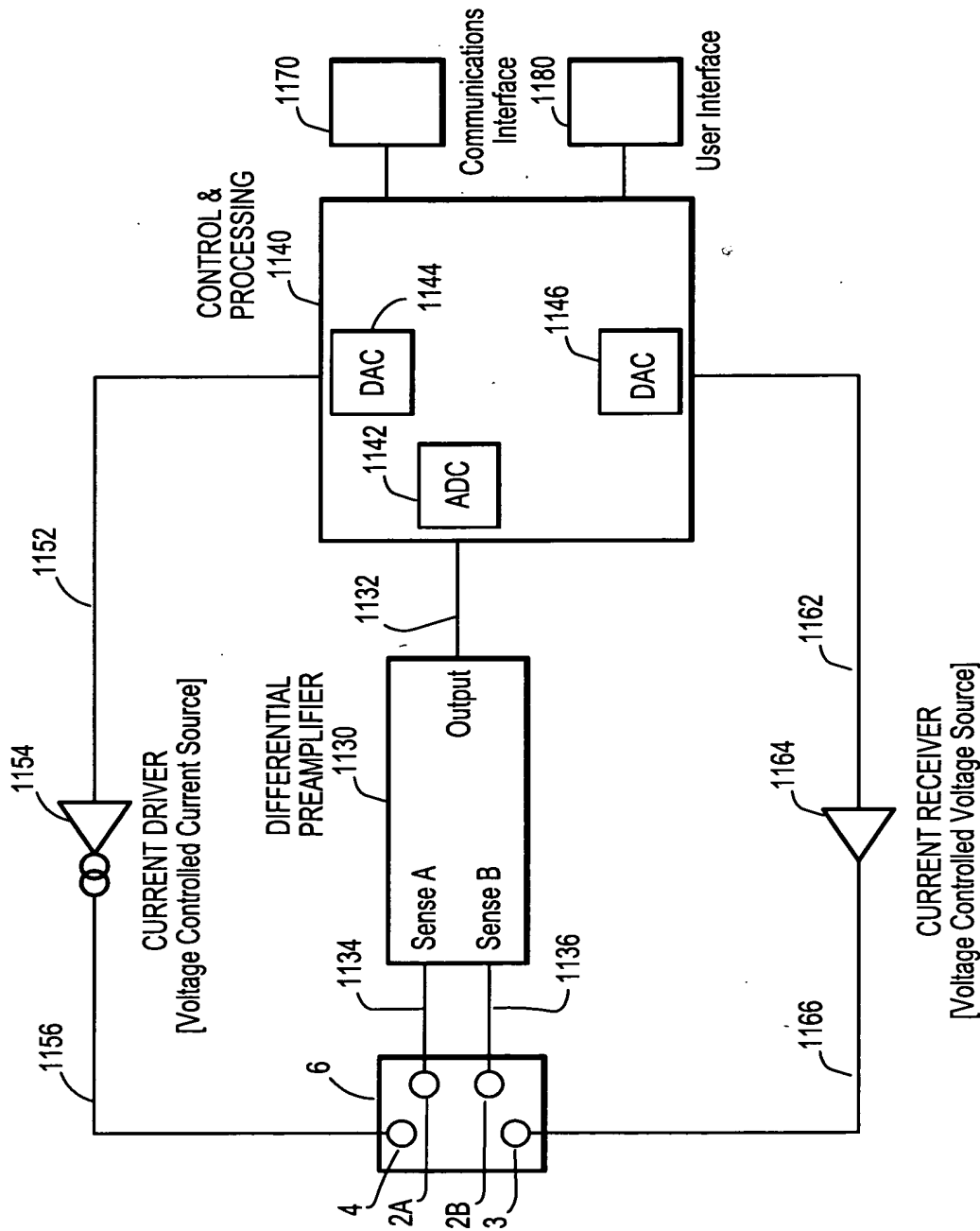
**FIG. 9**

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**FIG. 10**  
Excitation and Response Waveforms

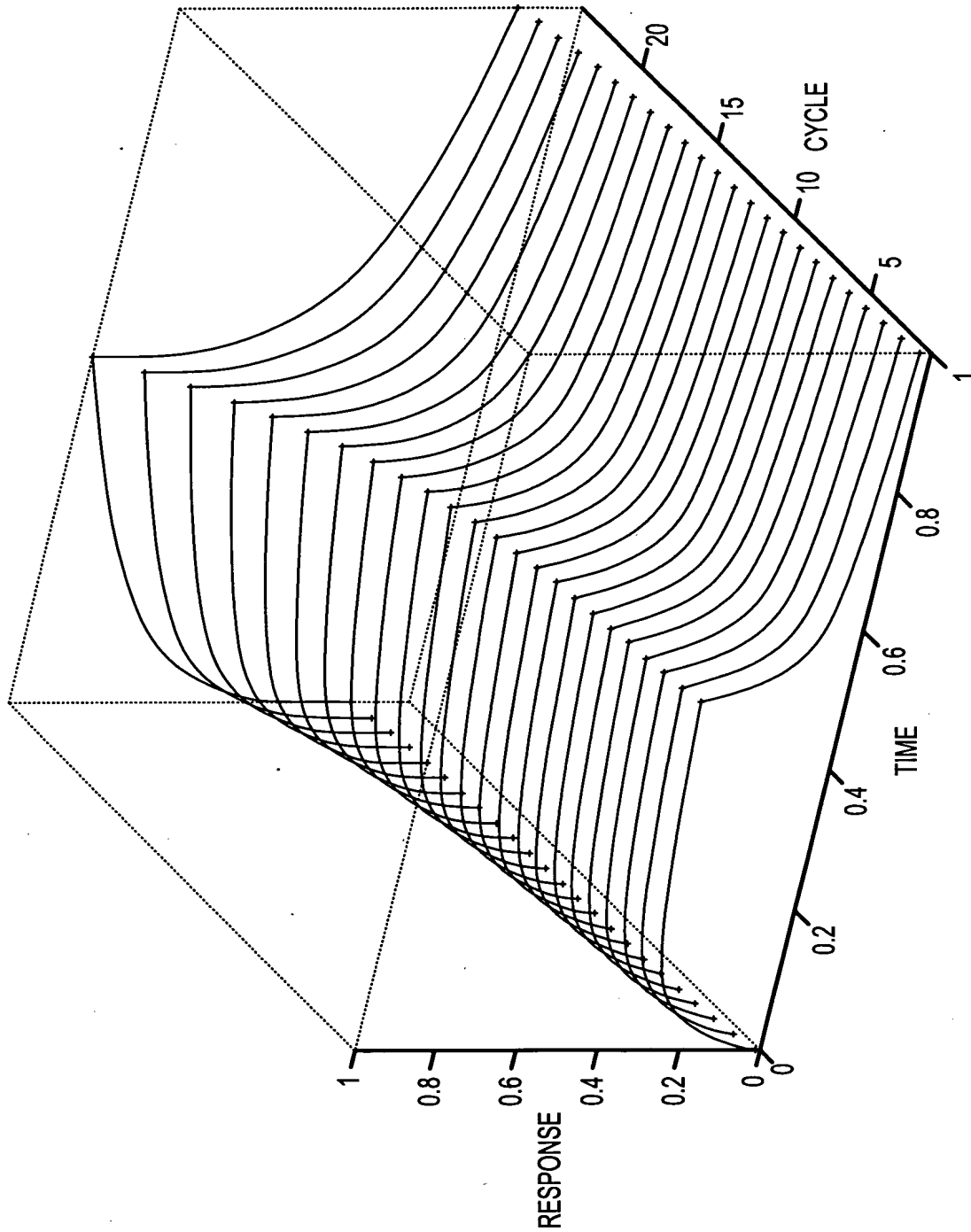
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**FIG. 11**

Galvanodynamic Test System

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**FIG. 12**

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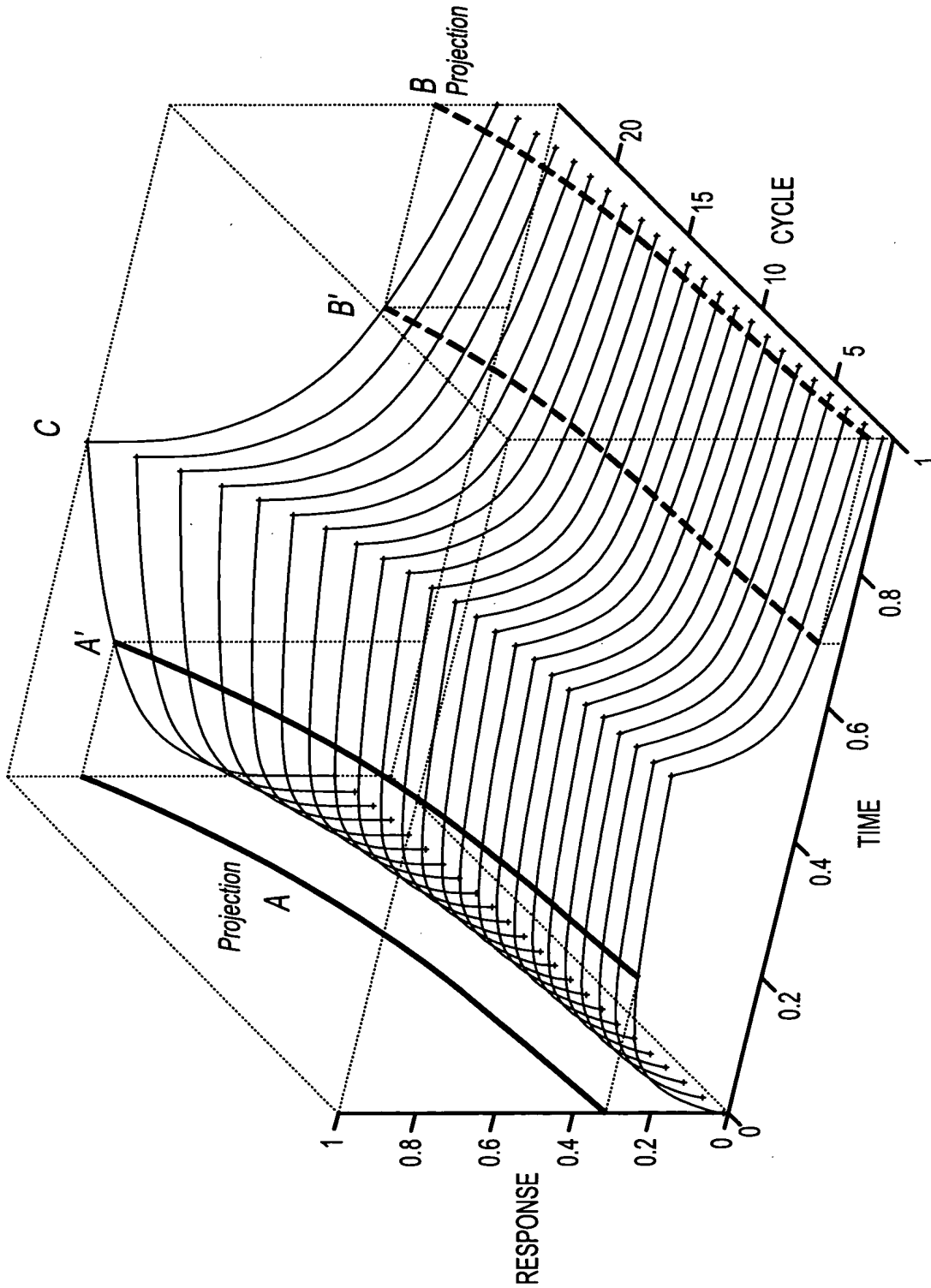
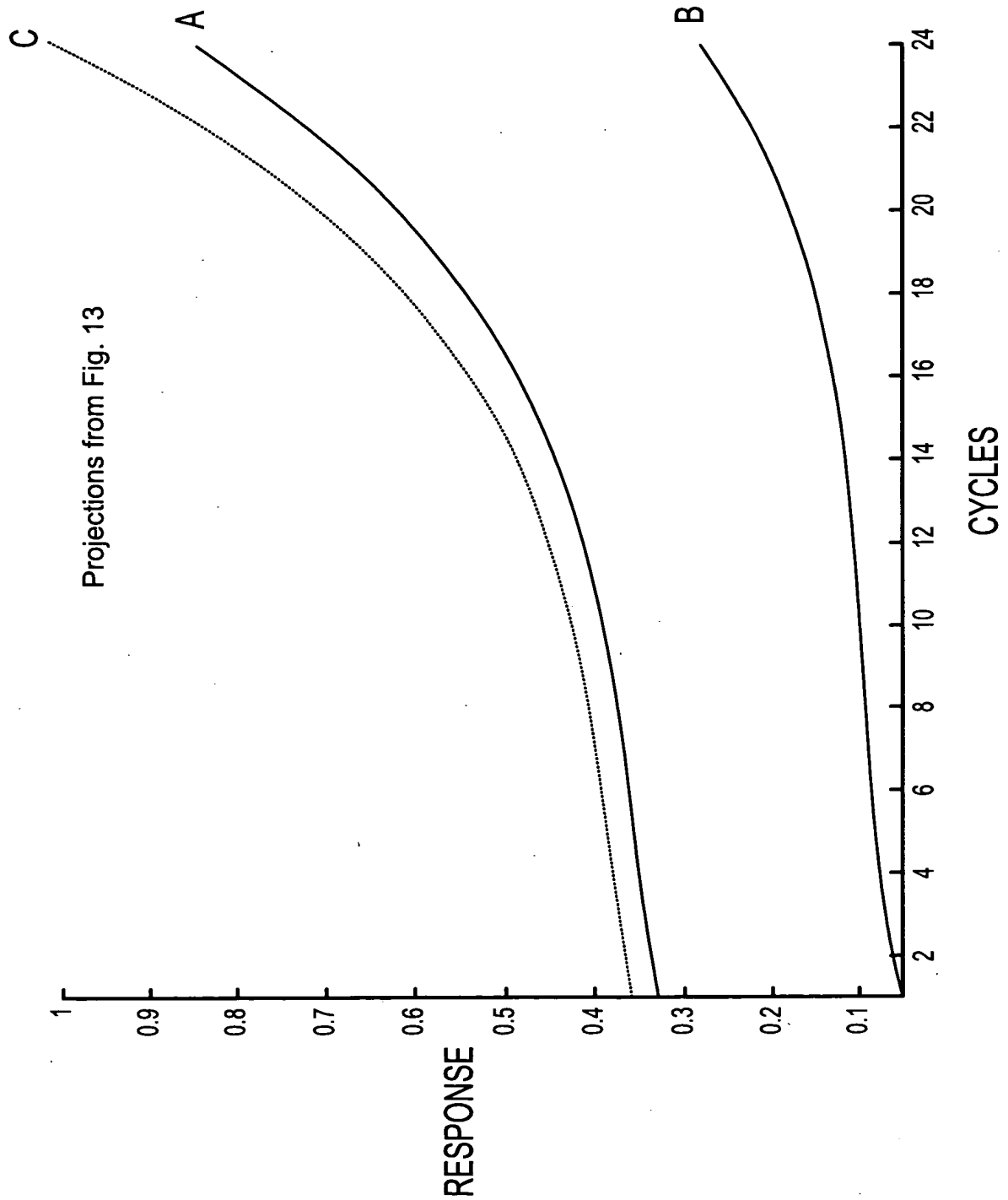
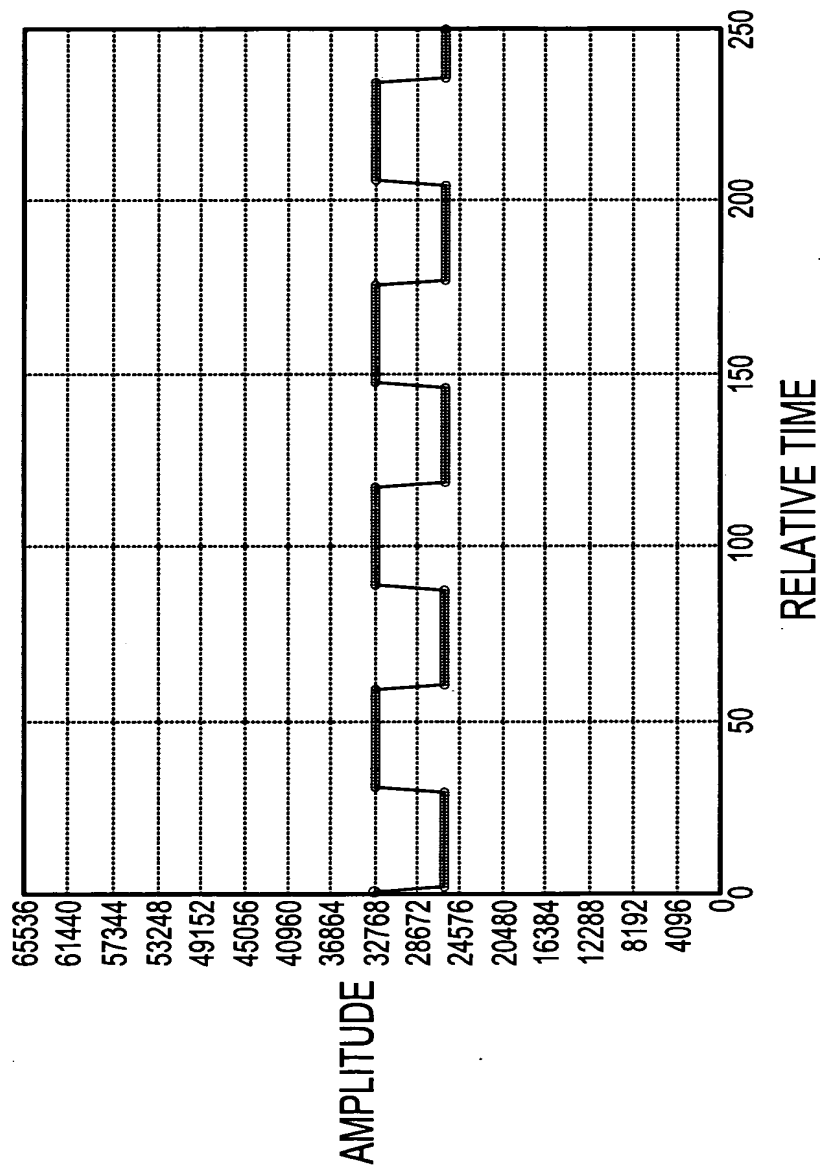


FIG. 13

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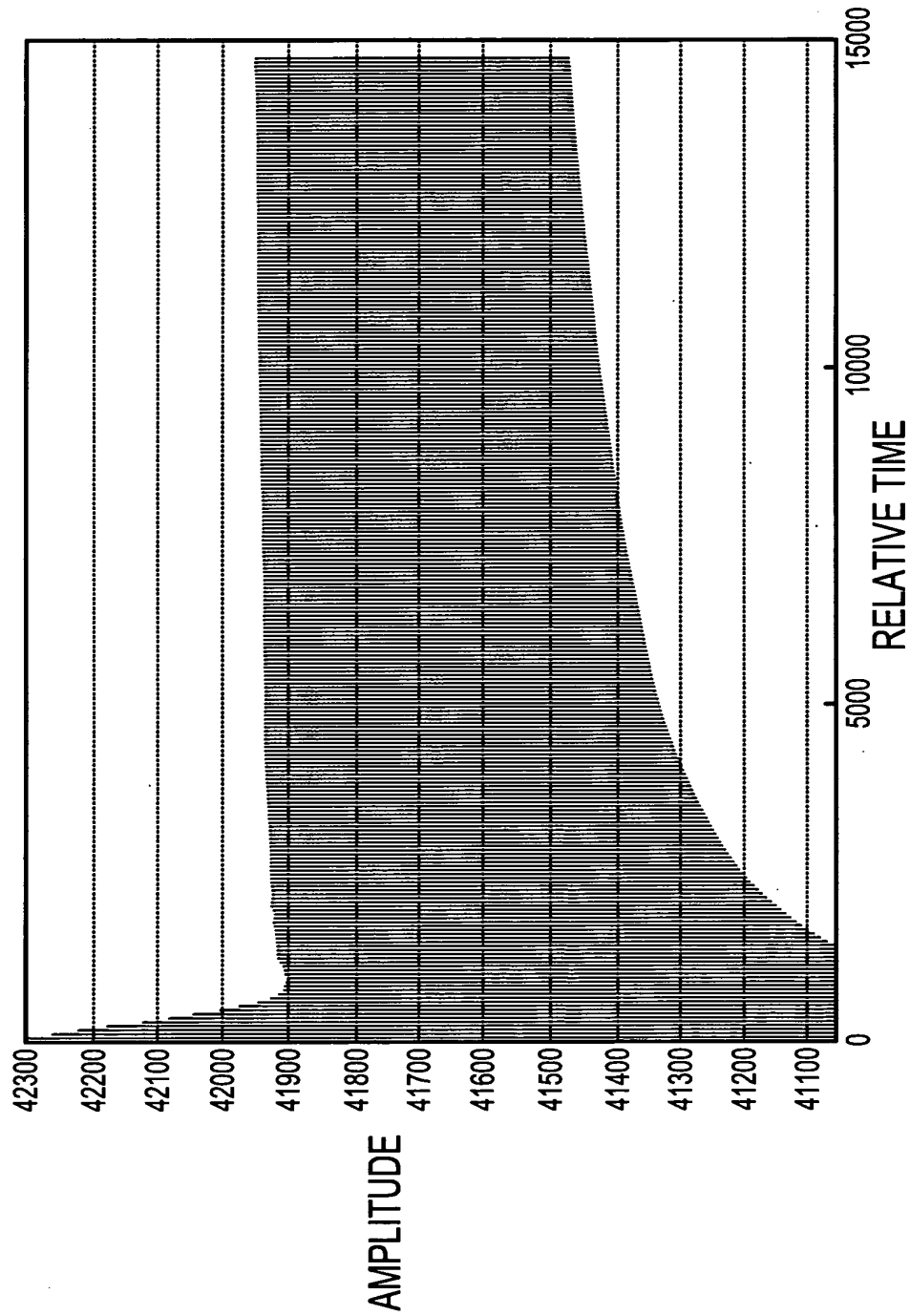


**FIG. 14**



**FIG. 15**

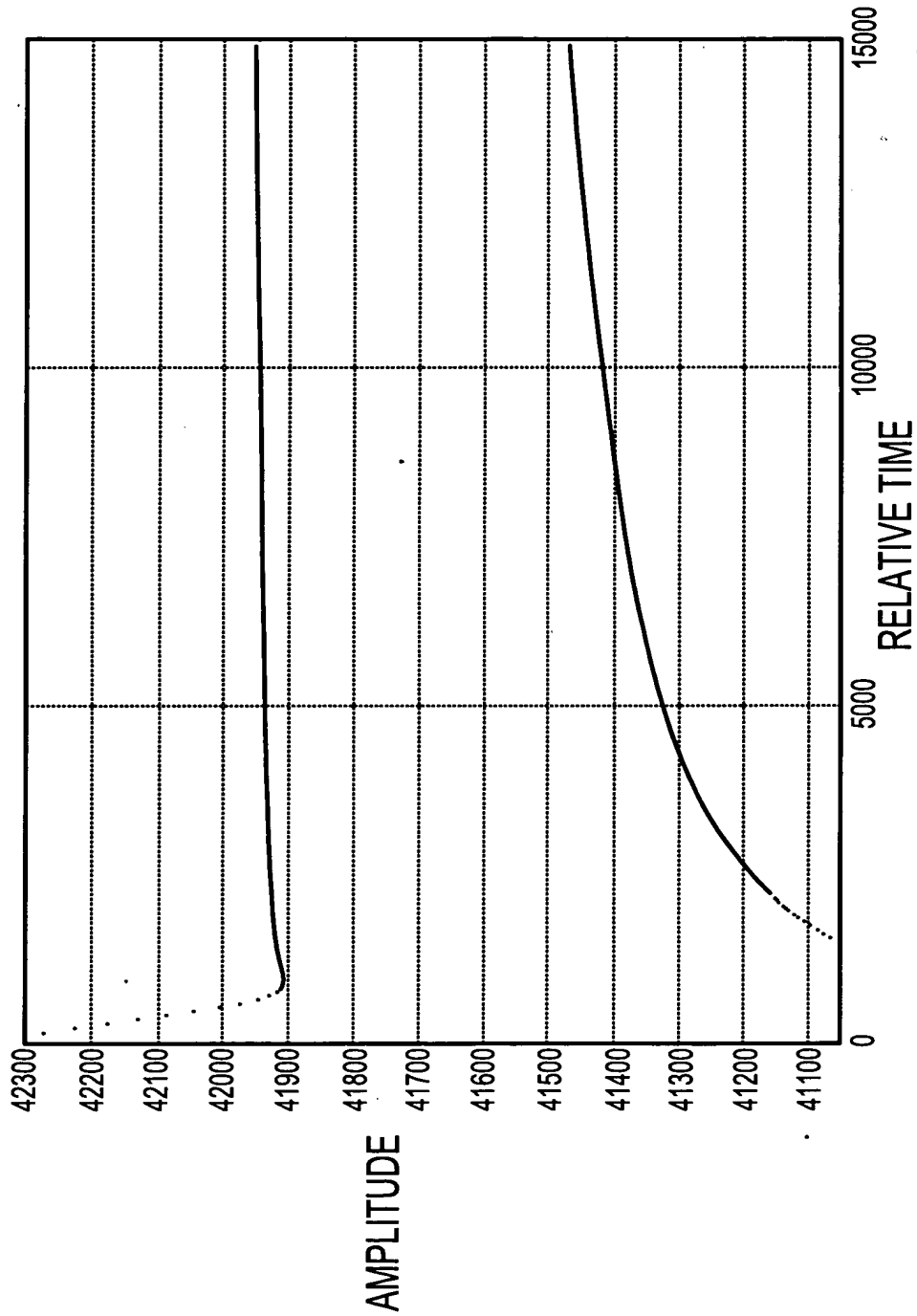
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**FIG. 16A**

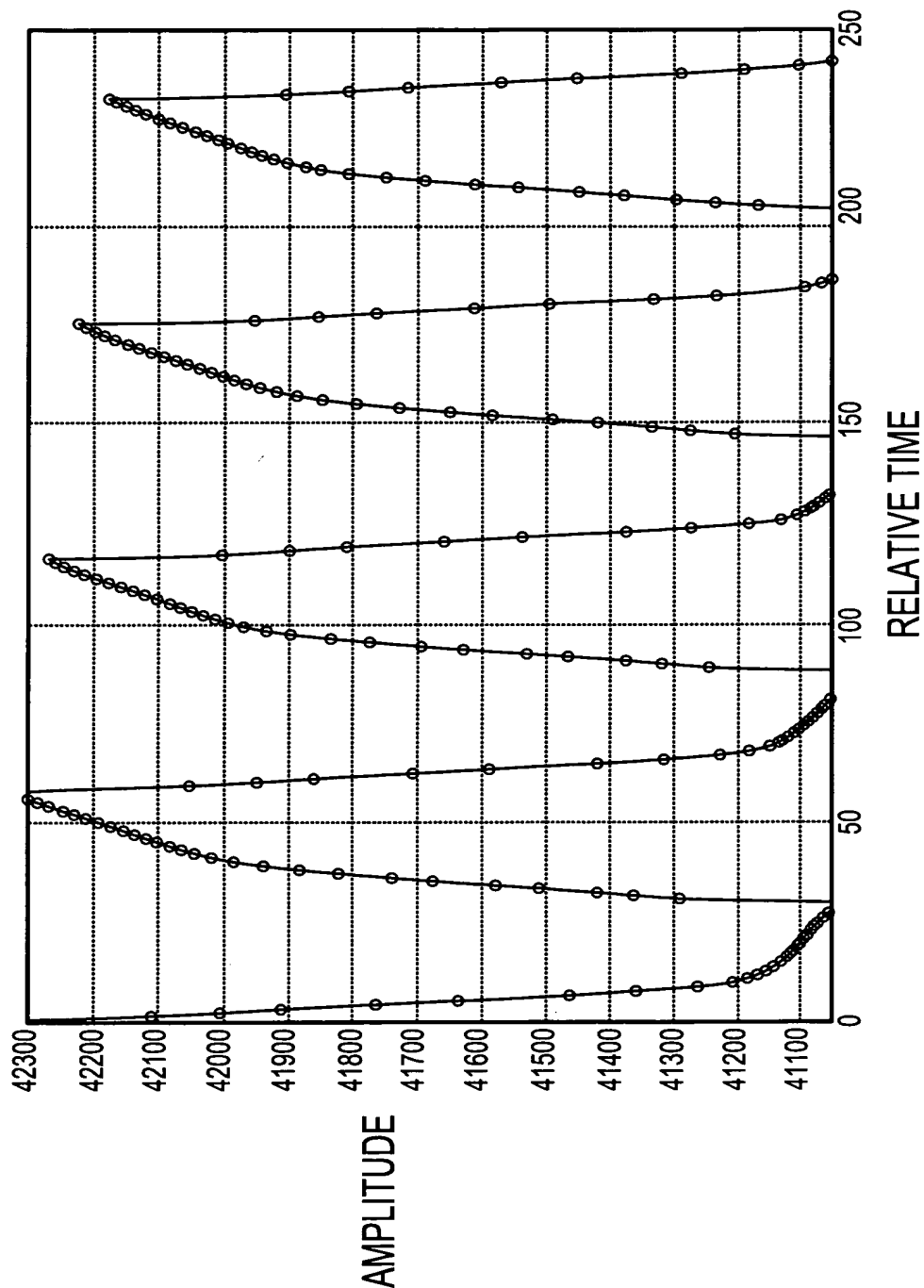


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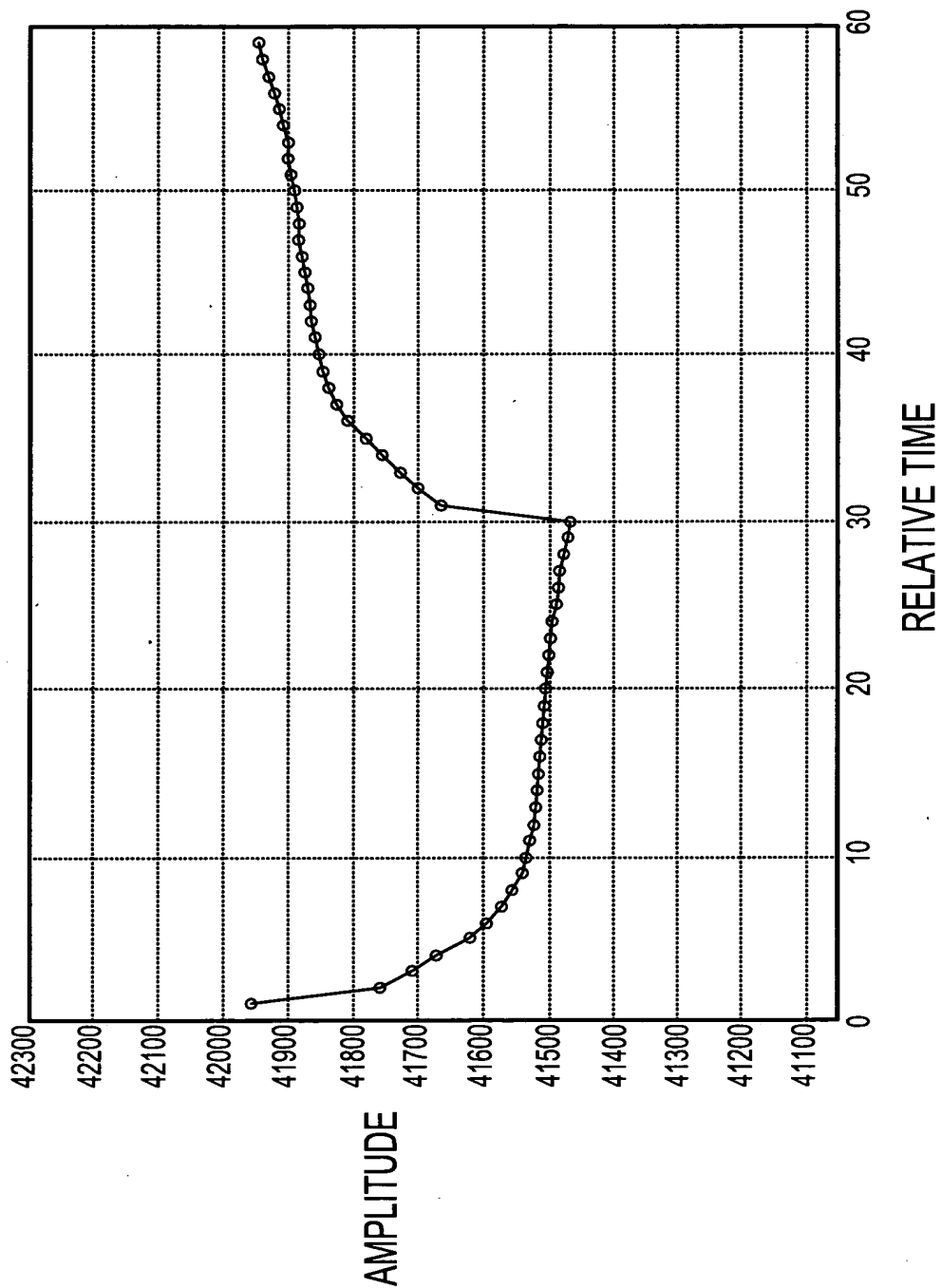
**FIG. 16B**

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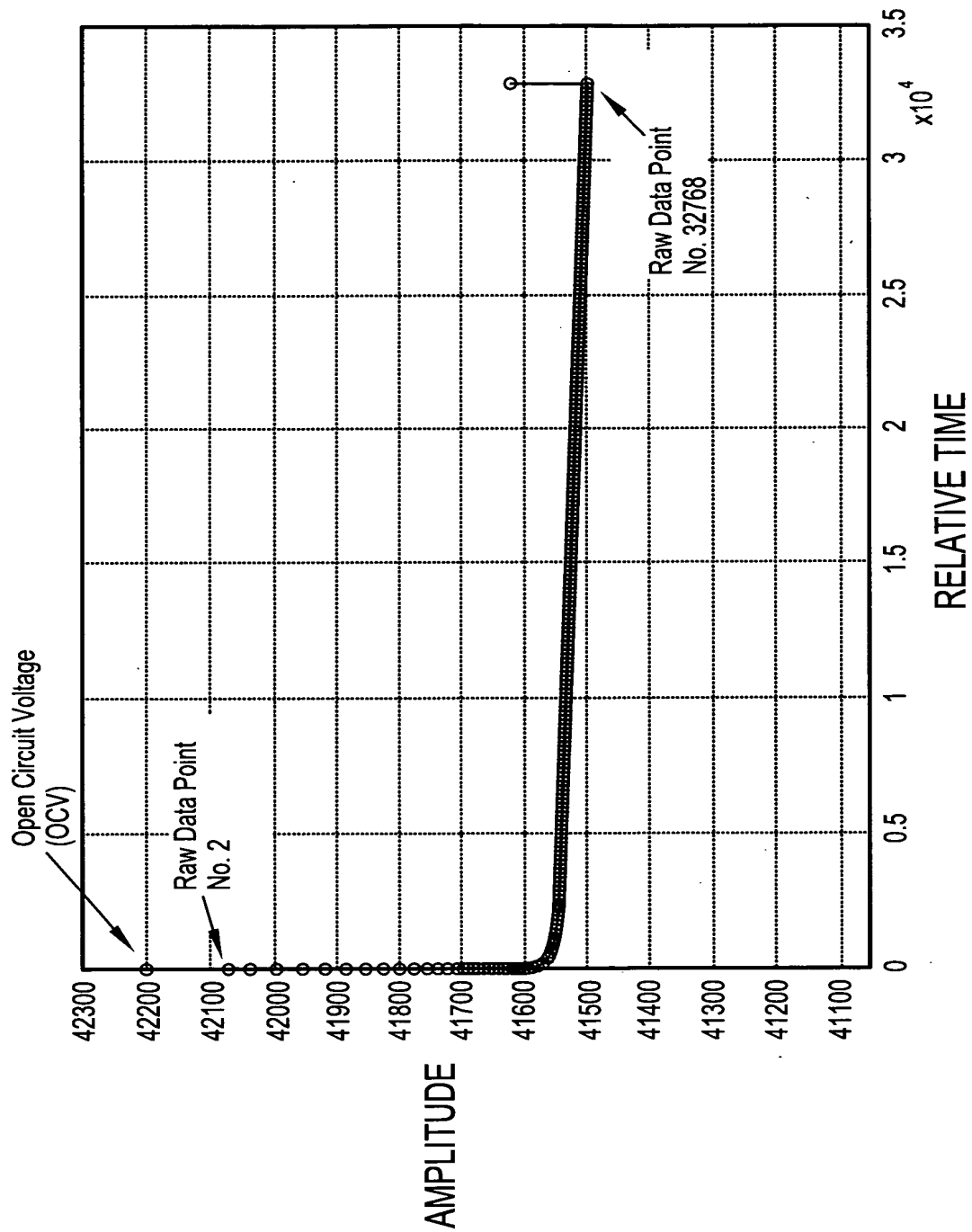
**FIG. 16C**

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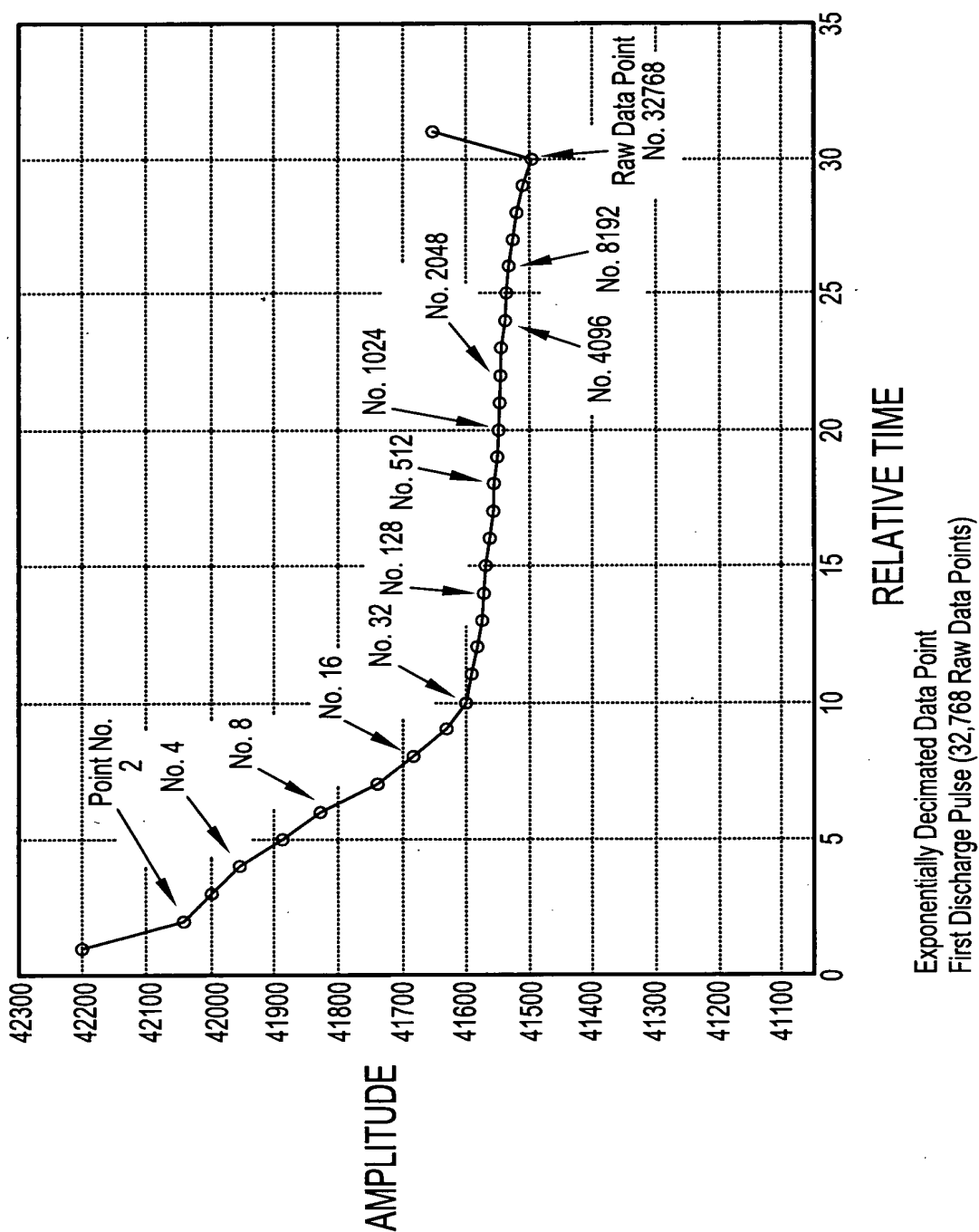
**FIG. 16D**

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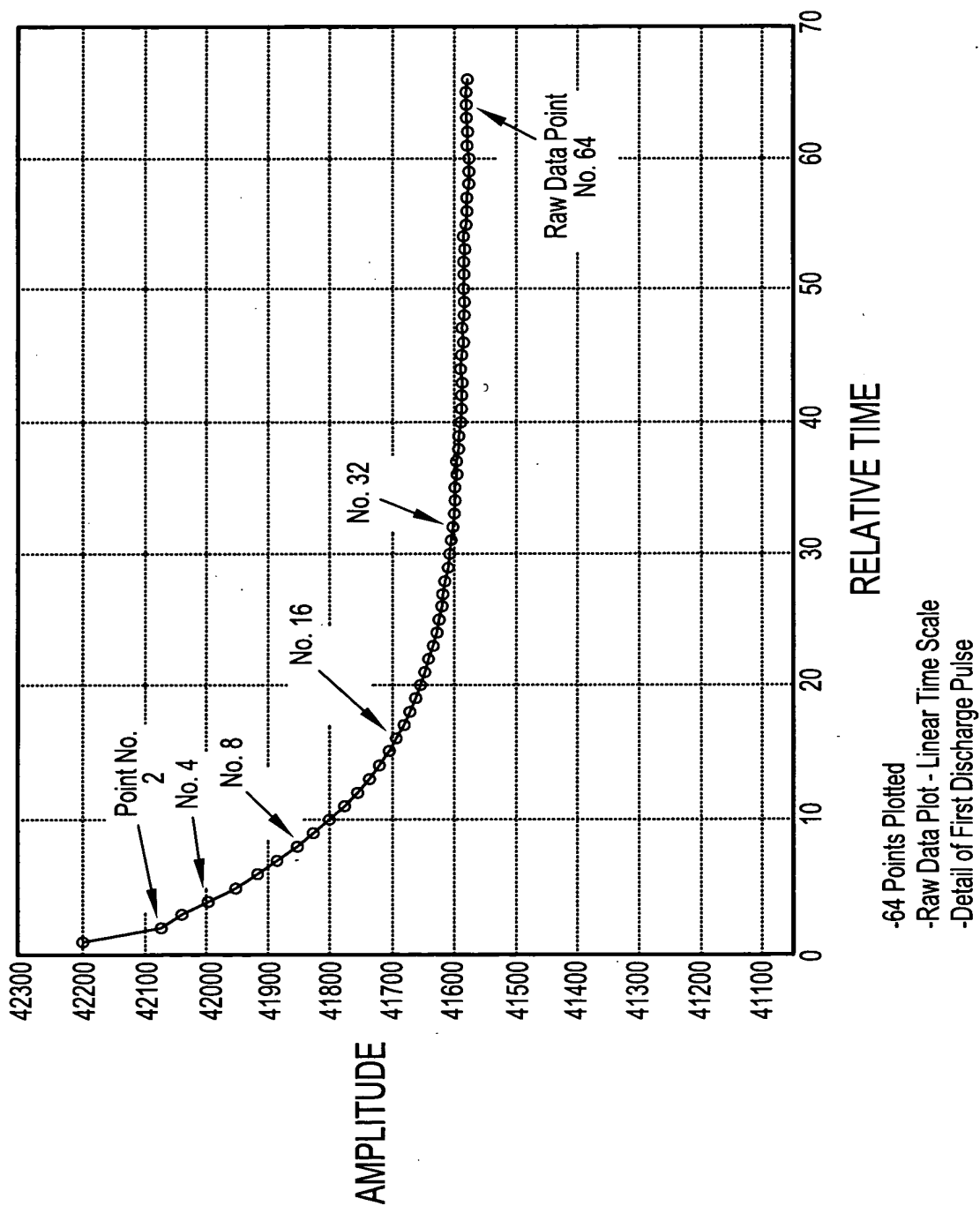
**FIG. 17A**

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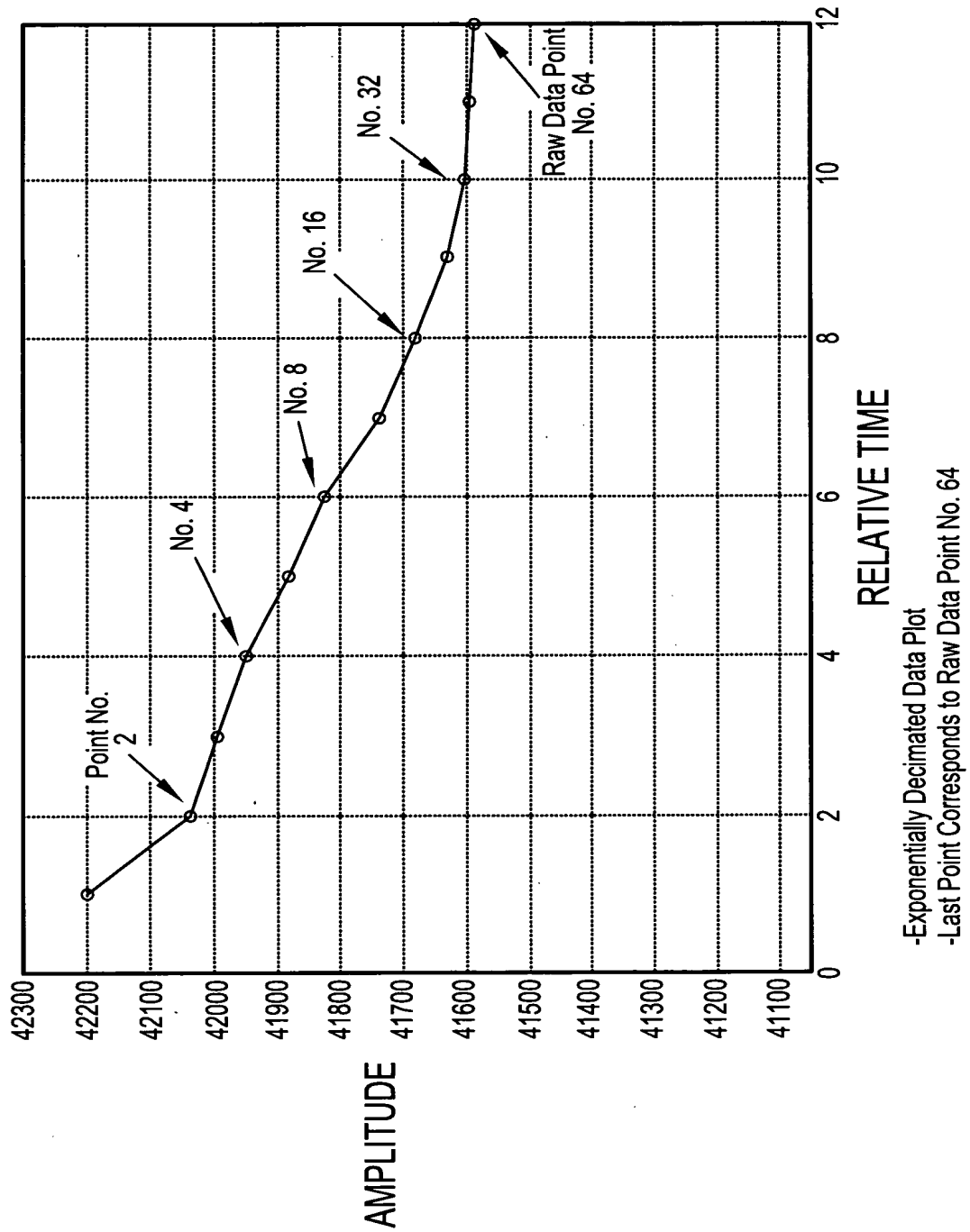
**FIG. 17B**

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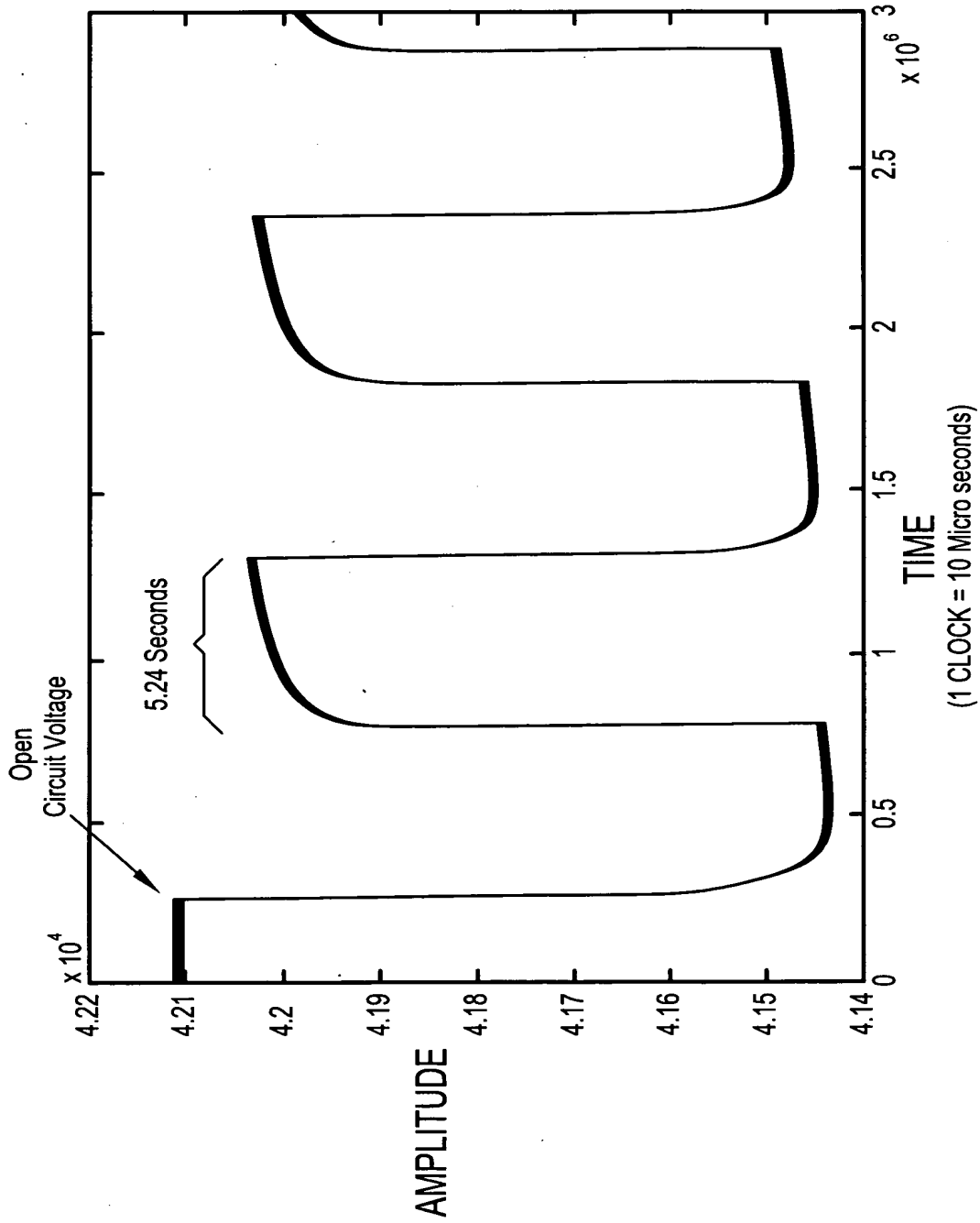
**FIG. 17C**

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**FIG. 17D**

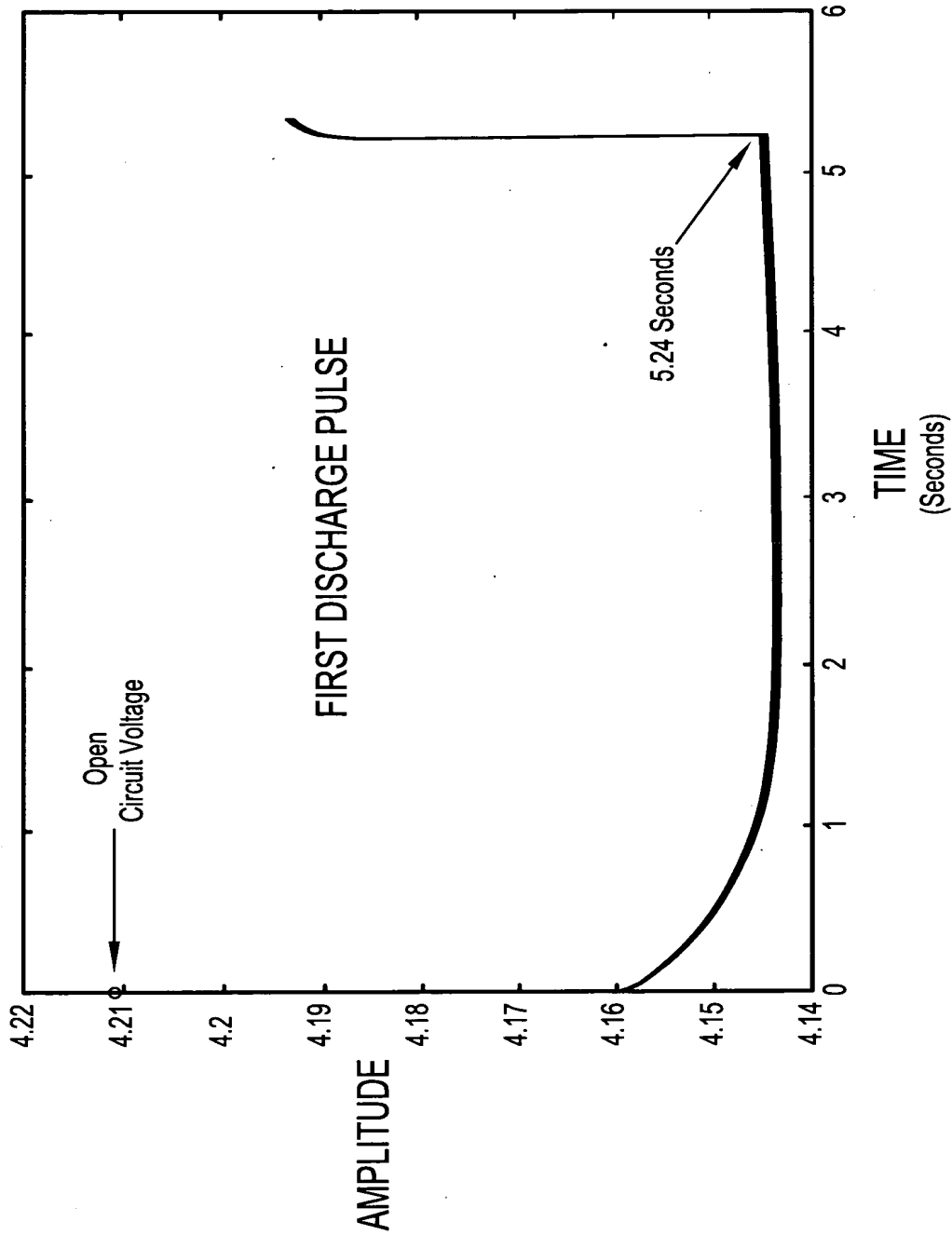
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**FIG. 18A**

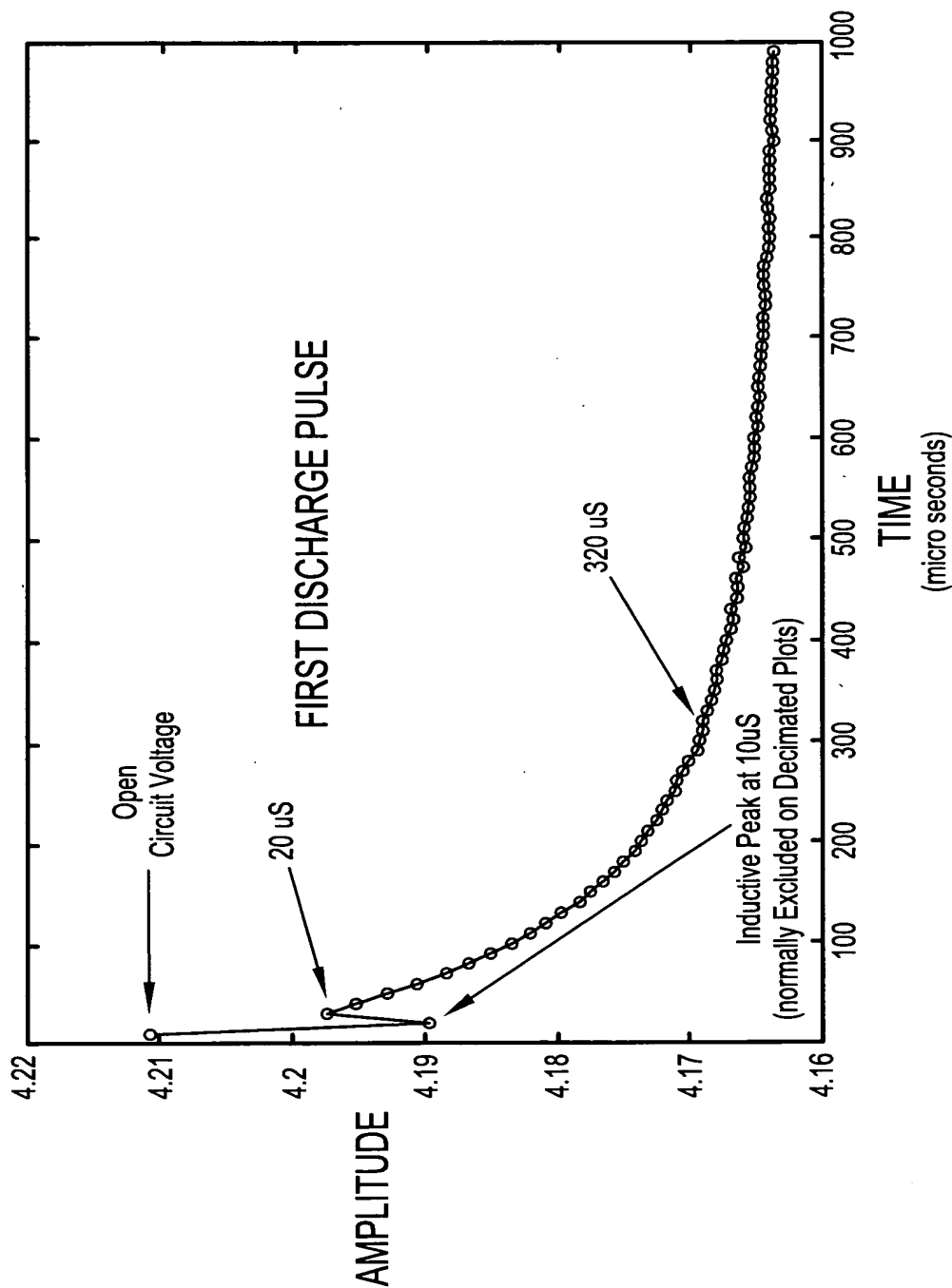


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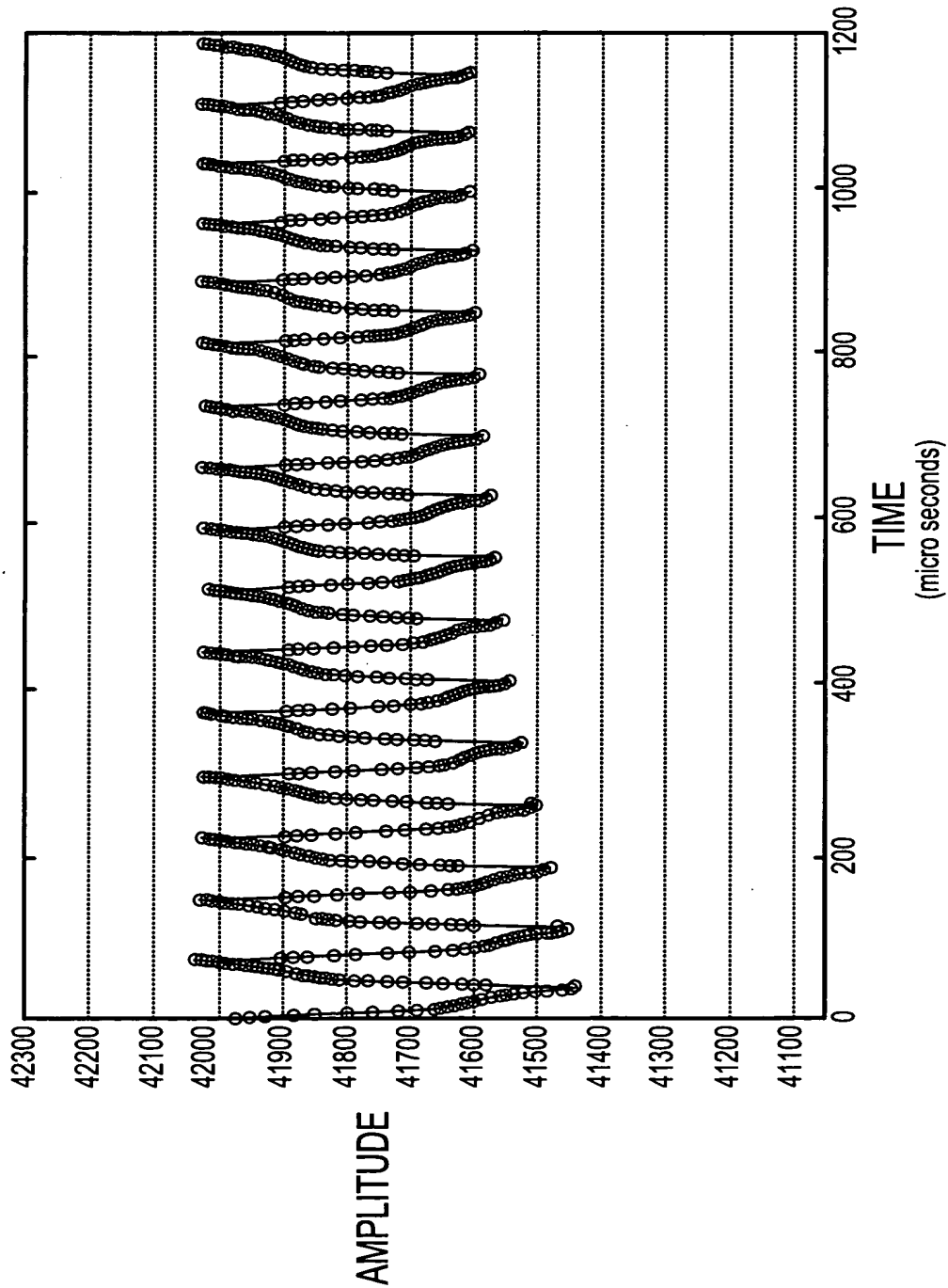
**FIG. 18B**

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**FIG. 18C**

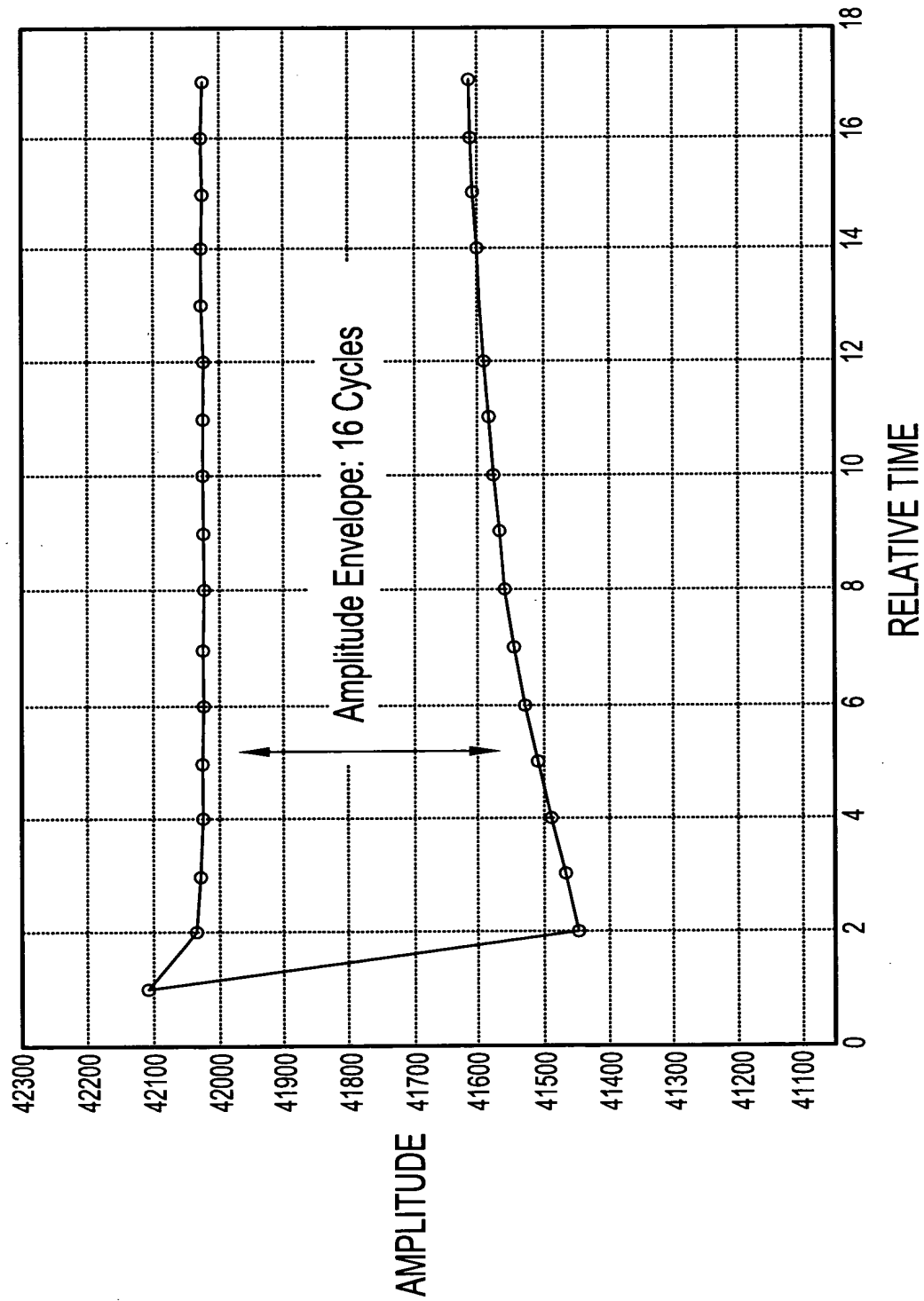
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-Exponentially Decimated Data Plot - 16 Full Cycles  
-Sampling Frequency: 100kHz  
-Pulse Duration - 5.24 Seconds

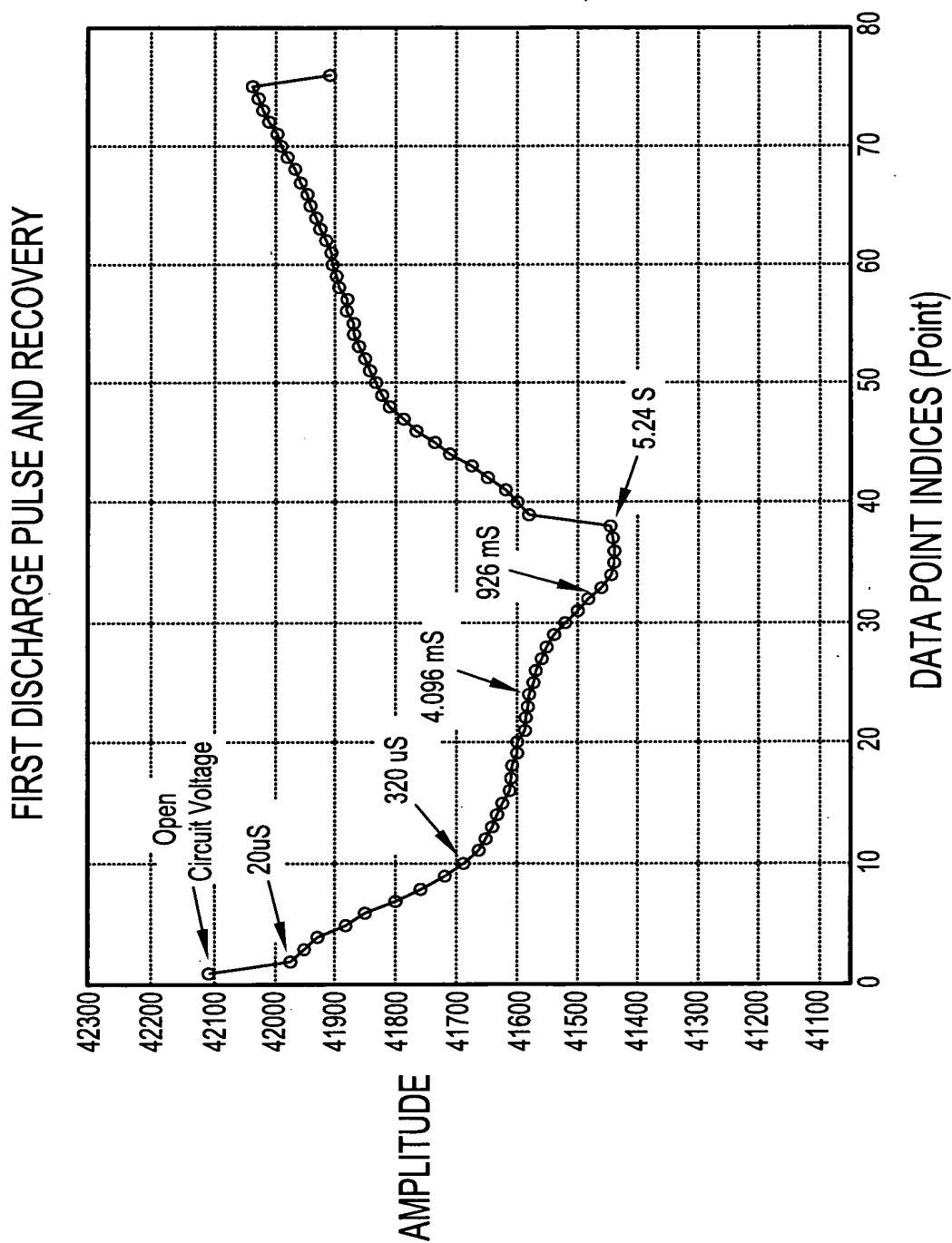
**FIG. 18D**

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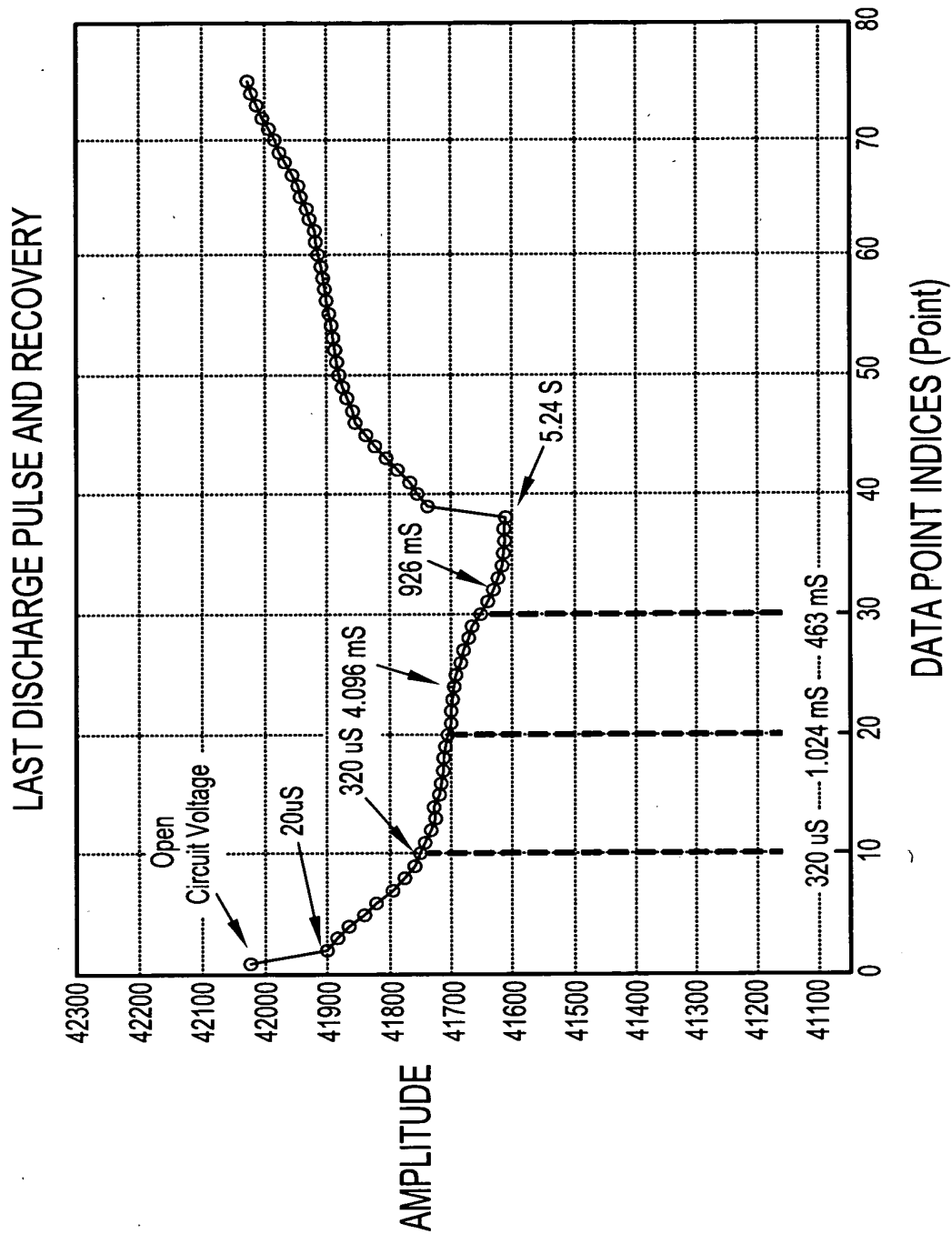
**FIG. 18E**

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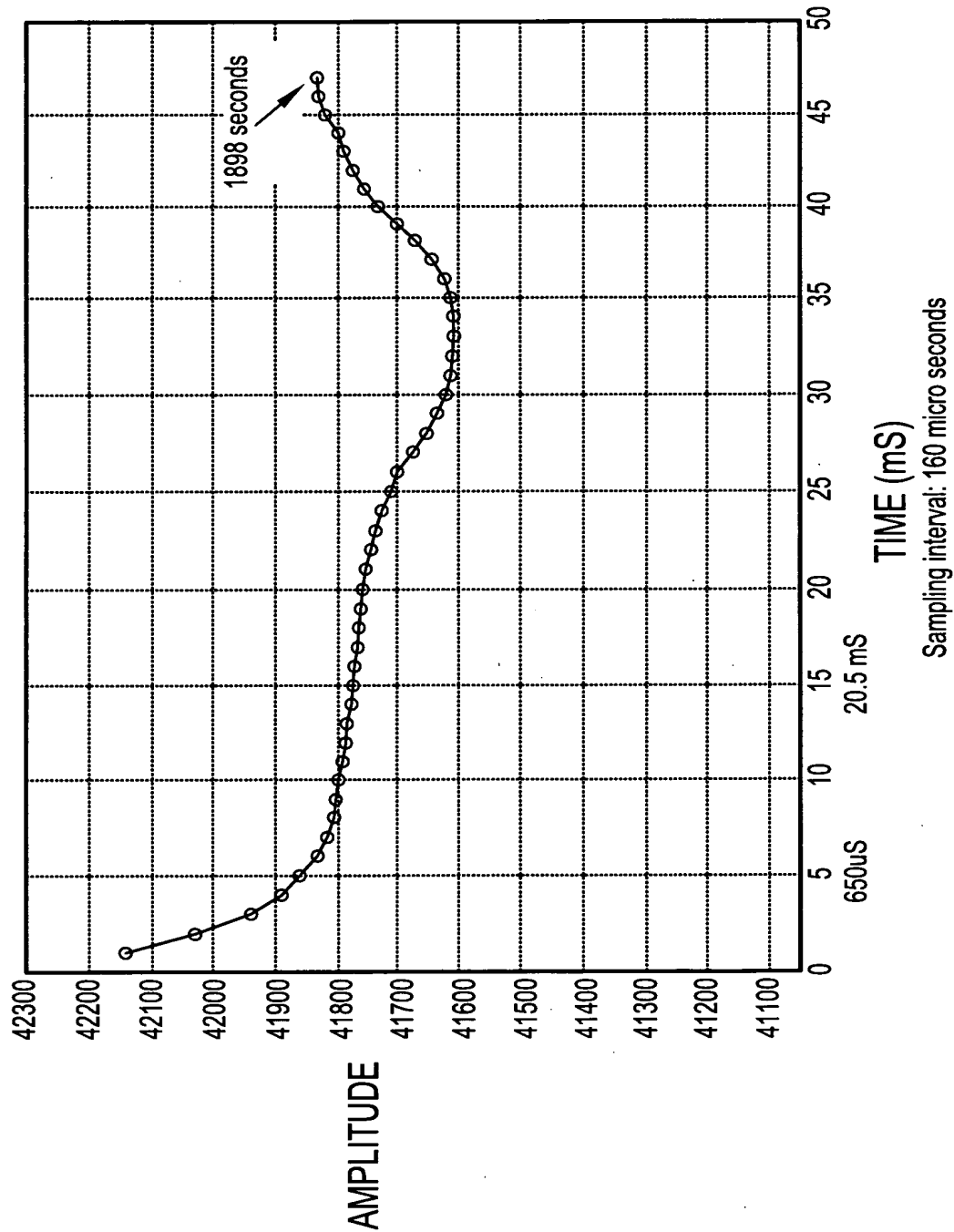
**FIG. 18F**

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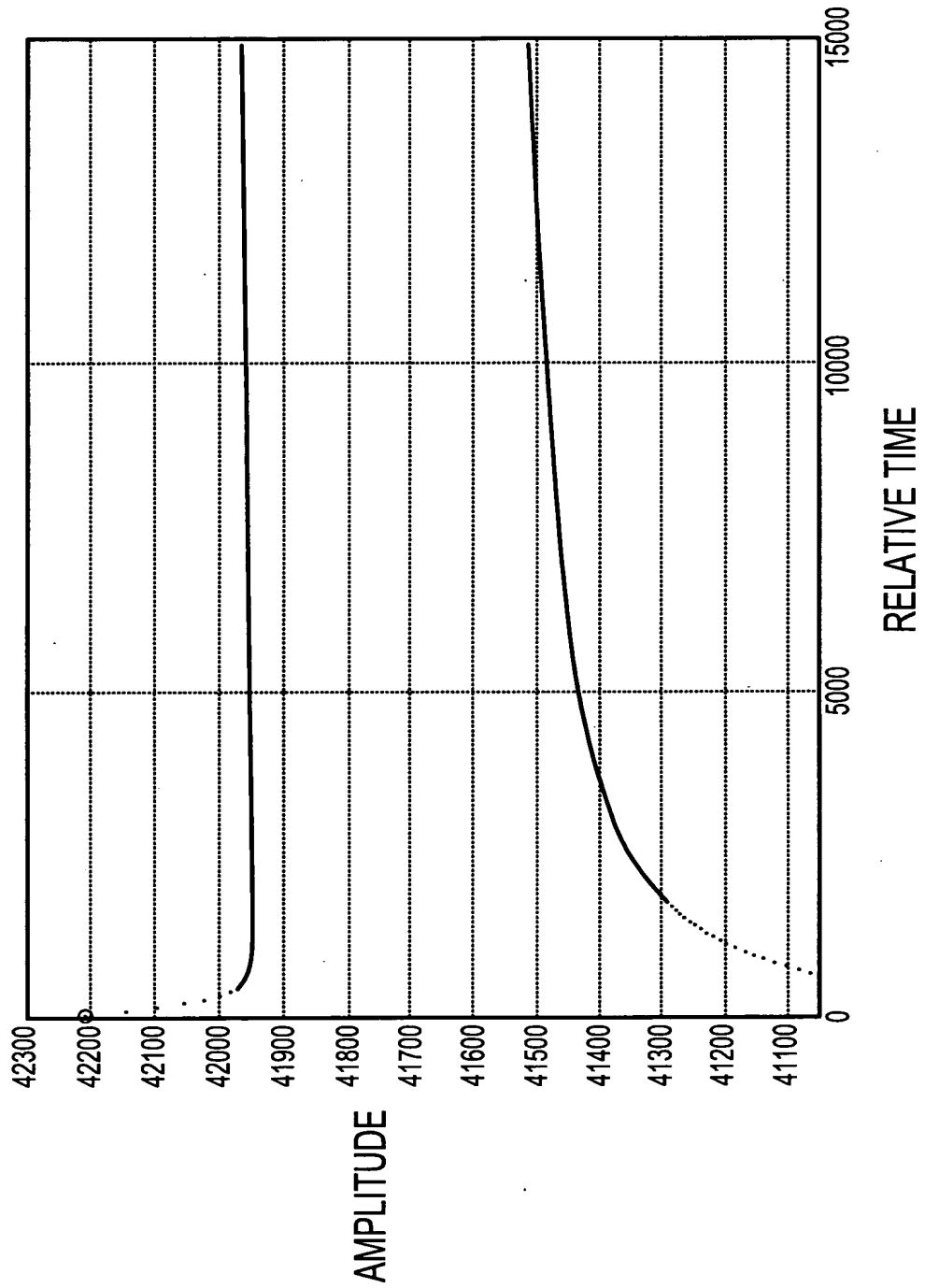
**FIG. 18G**

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**FIG. 19**

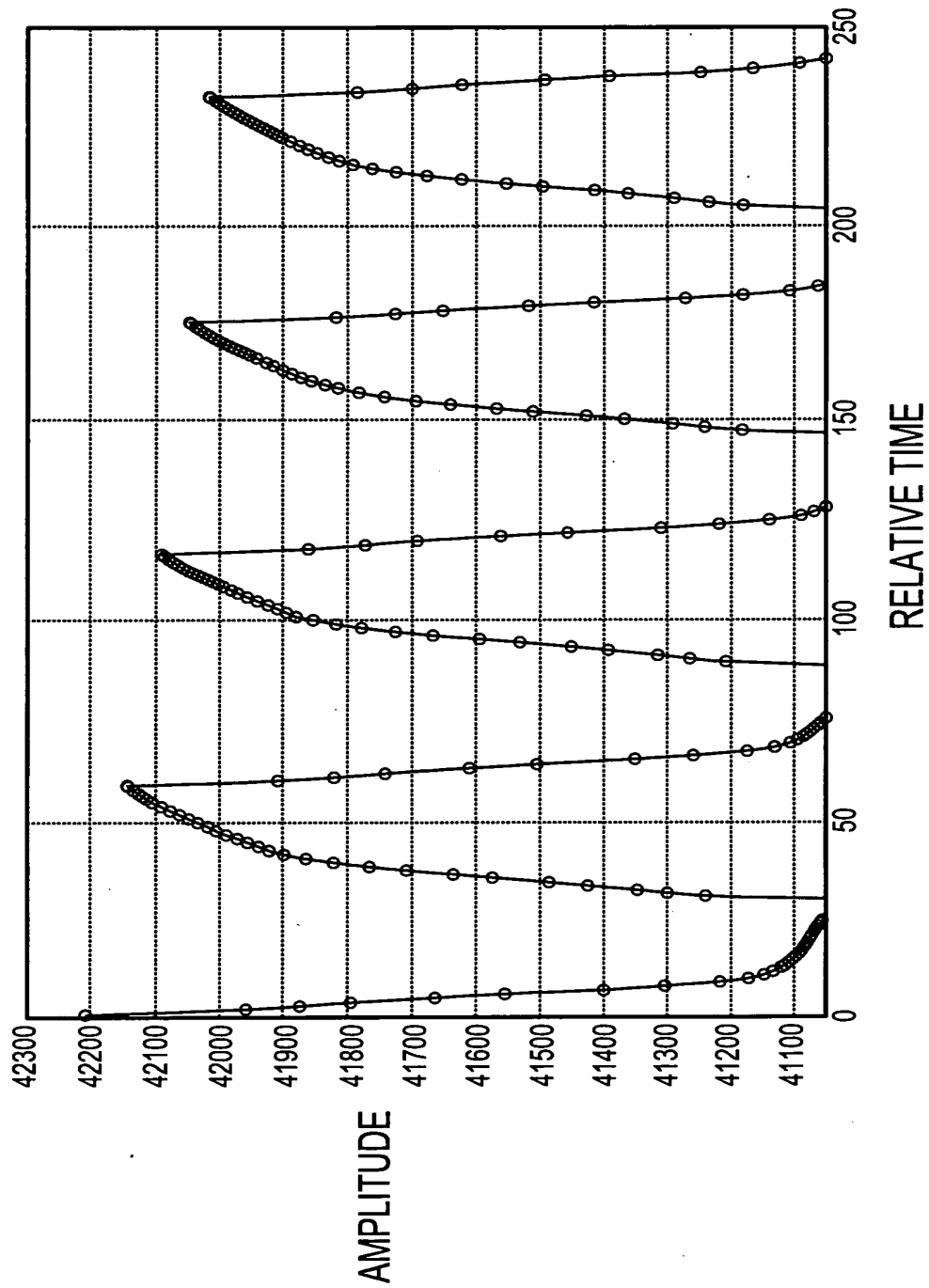
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**FIG. 20A**

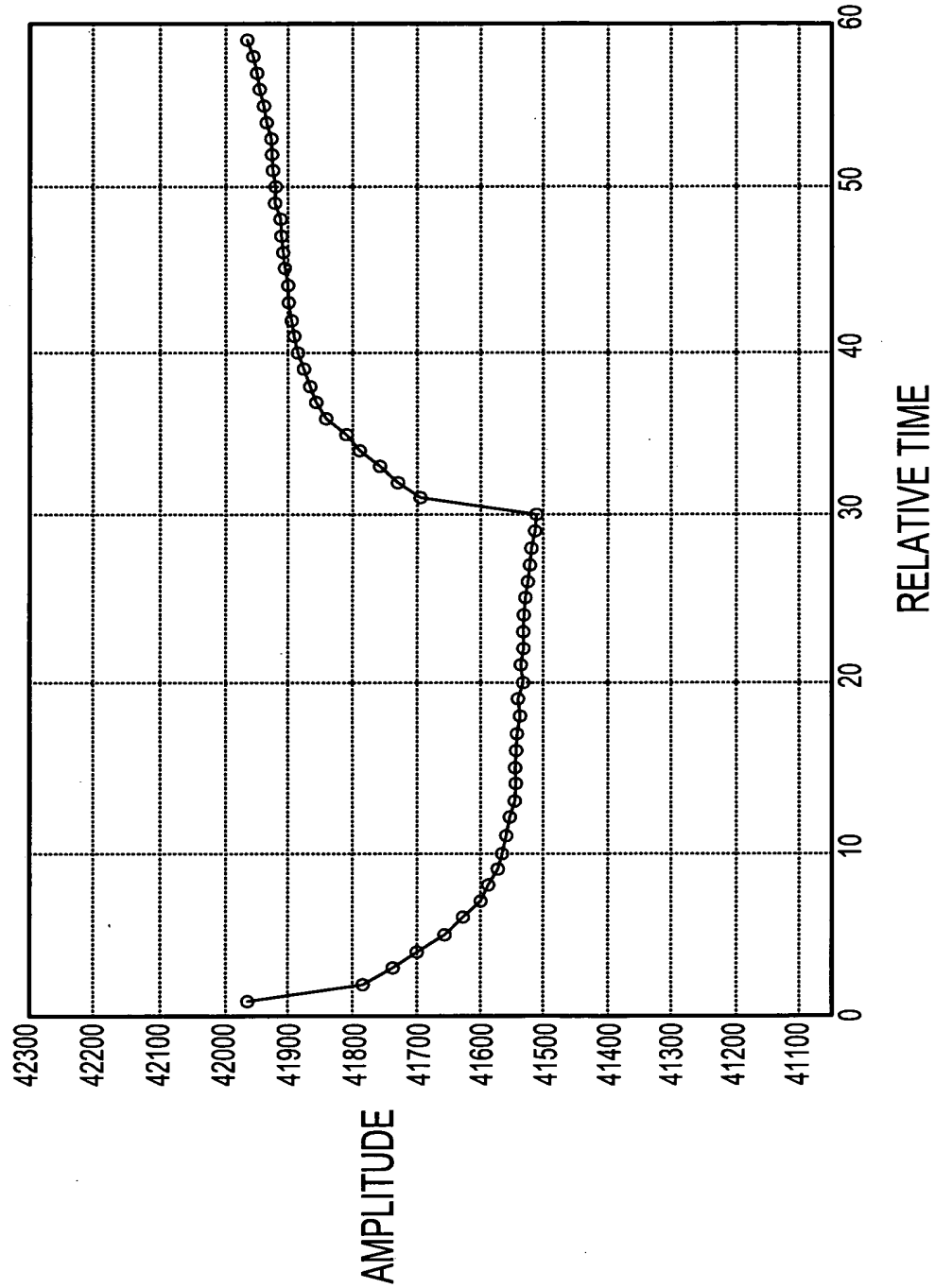


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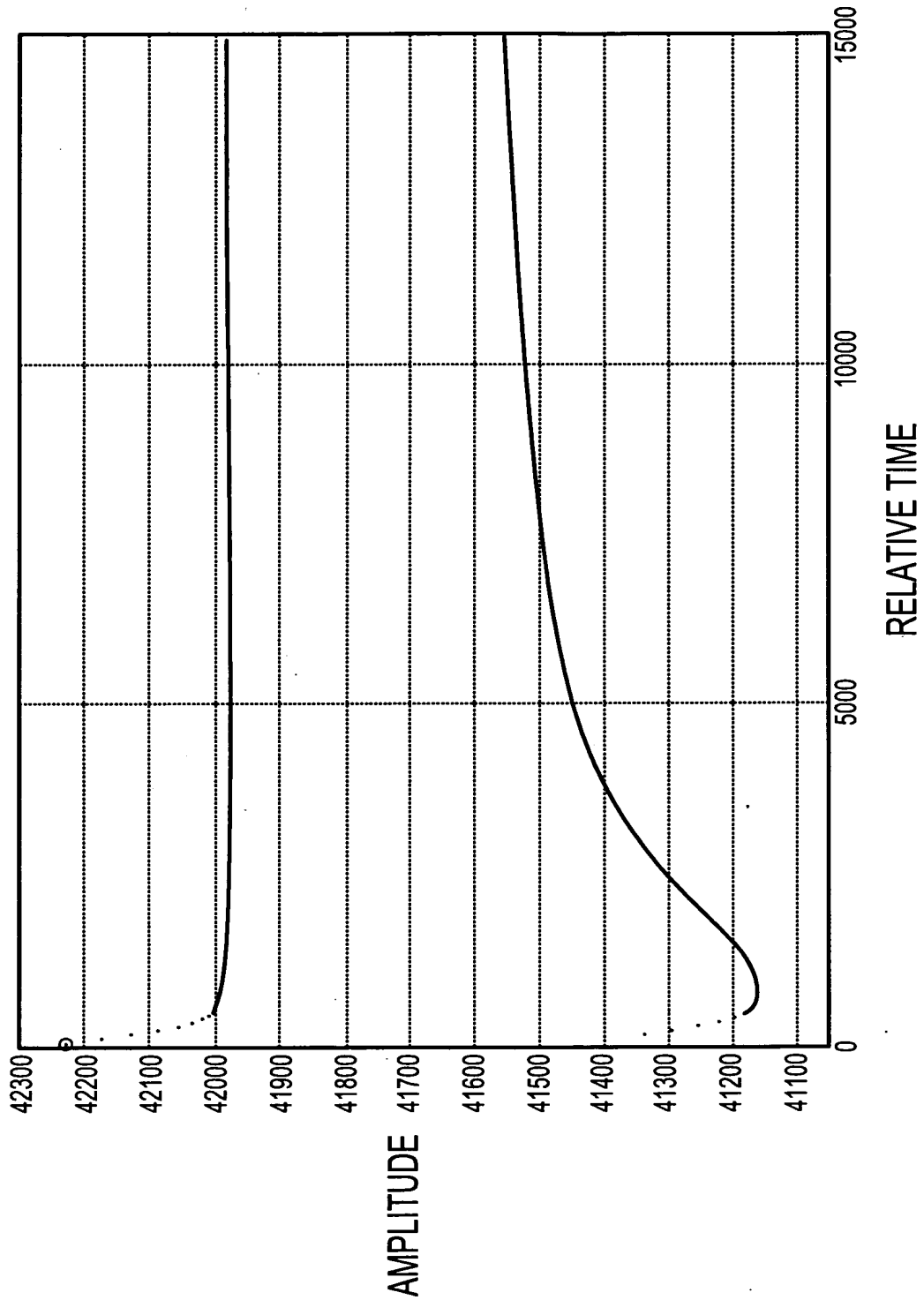
**FIG. 20B**

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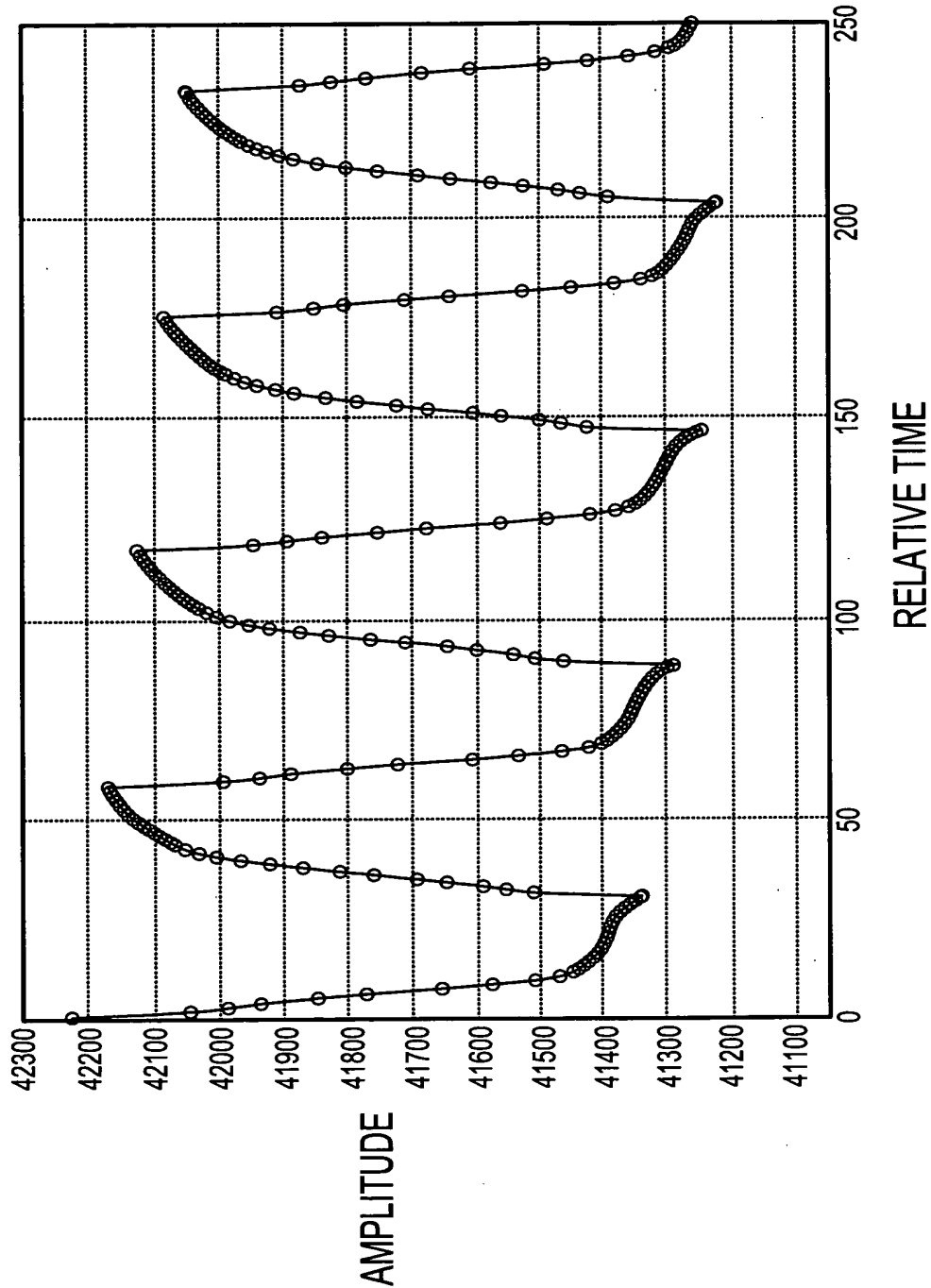
**FIG. 20C**

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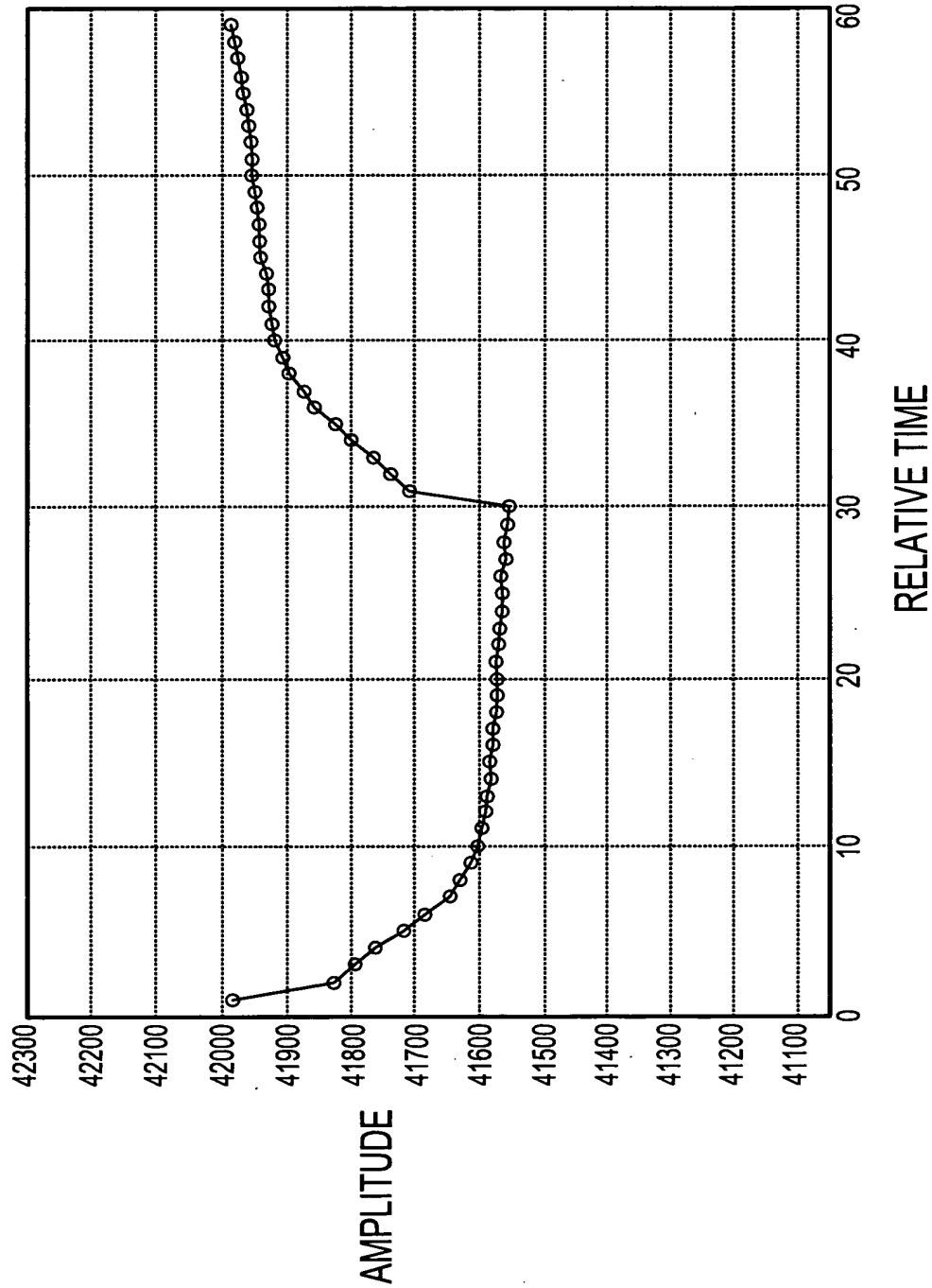
**FIG. 21A**

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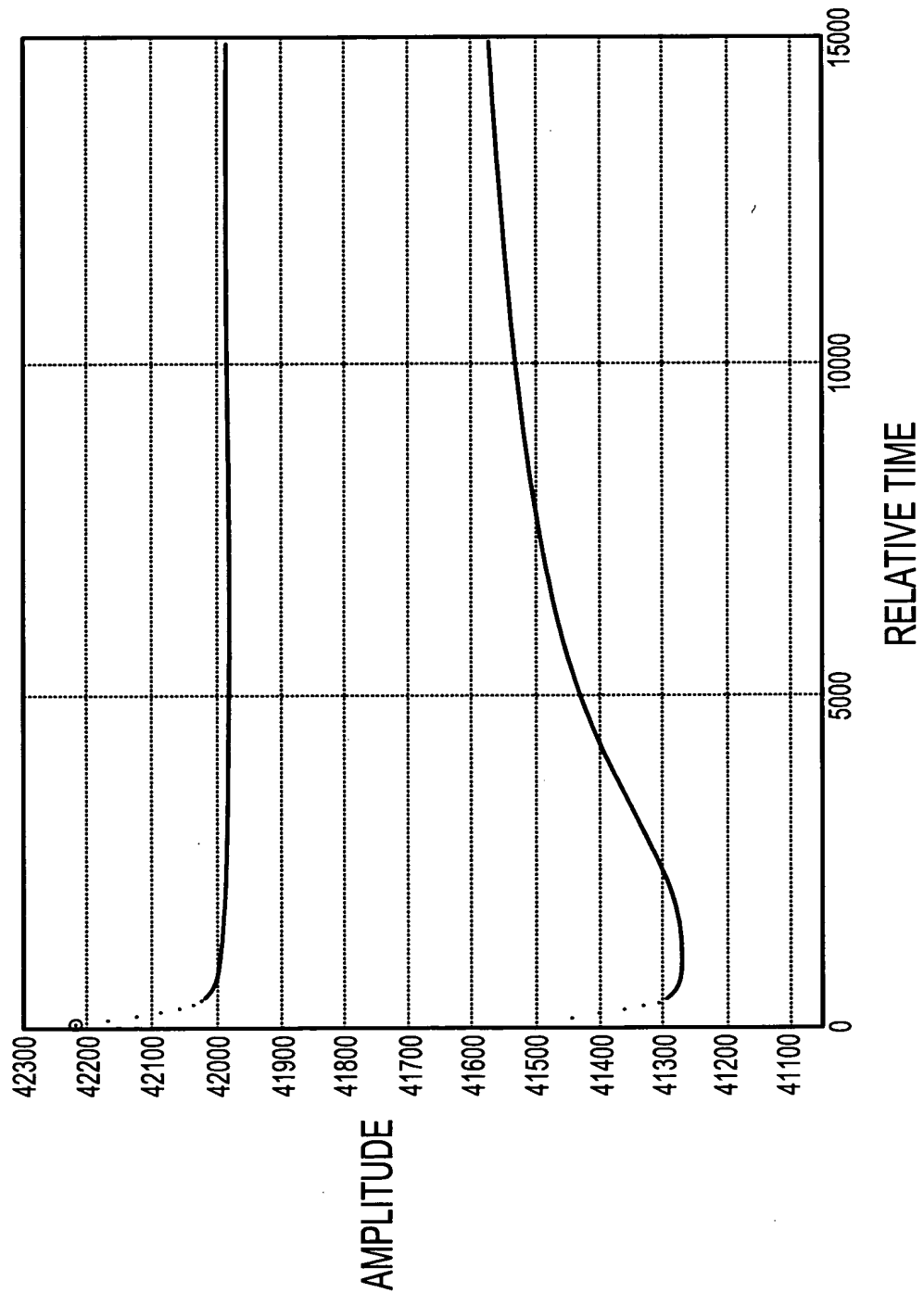
**FIG. 21B**

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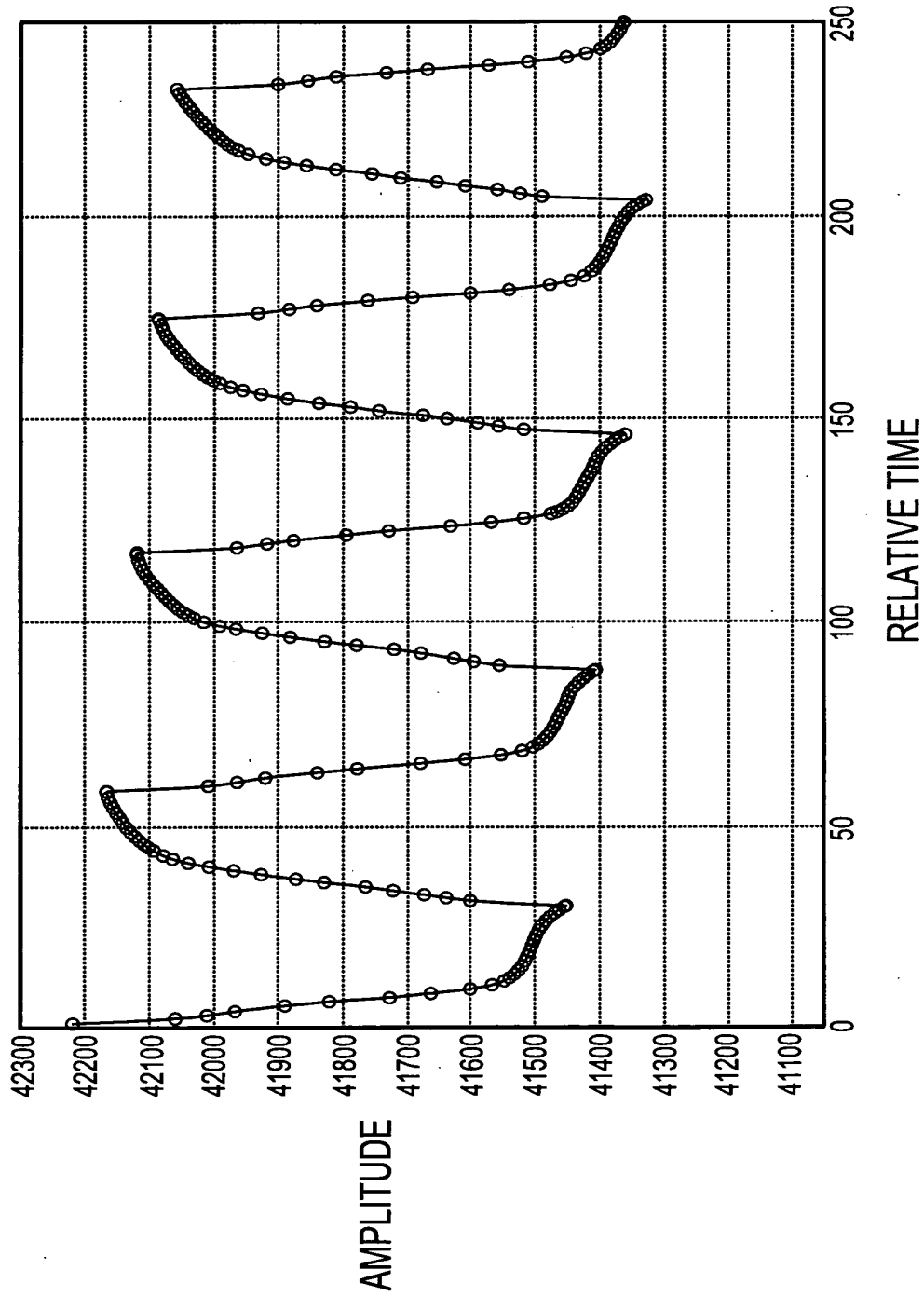
**FIG. 21C**

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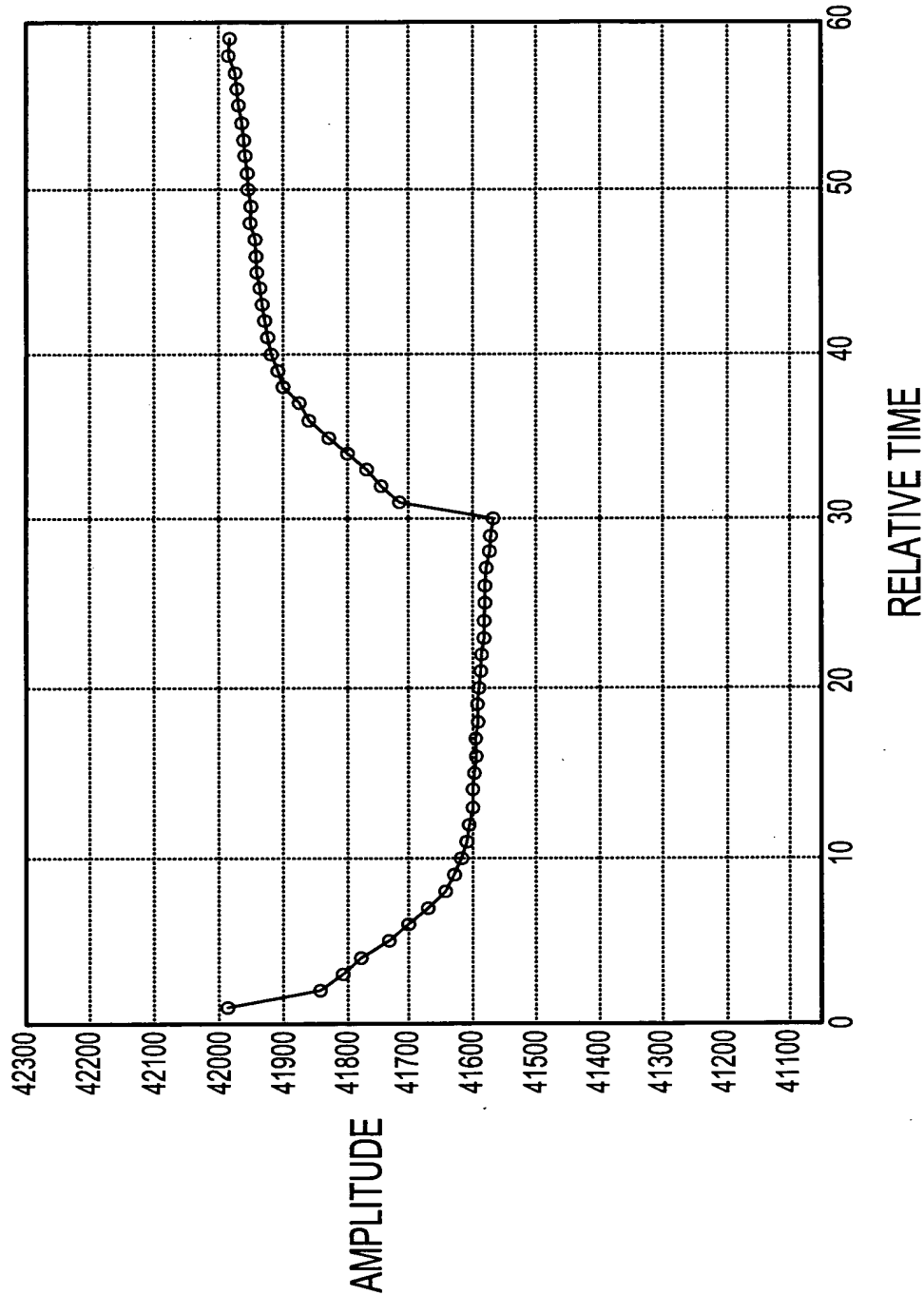
**FIG. 22A**

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**FIG. 22B**

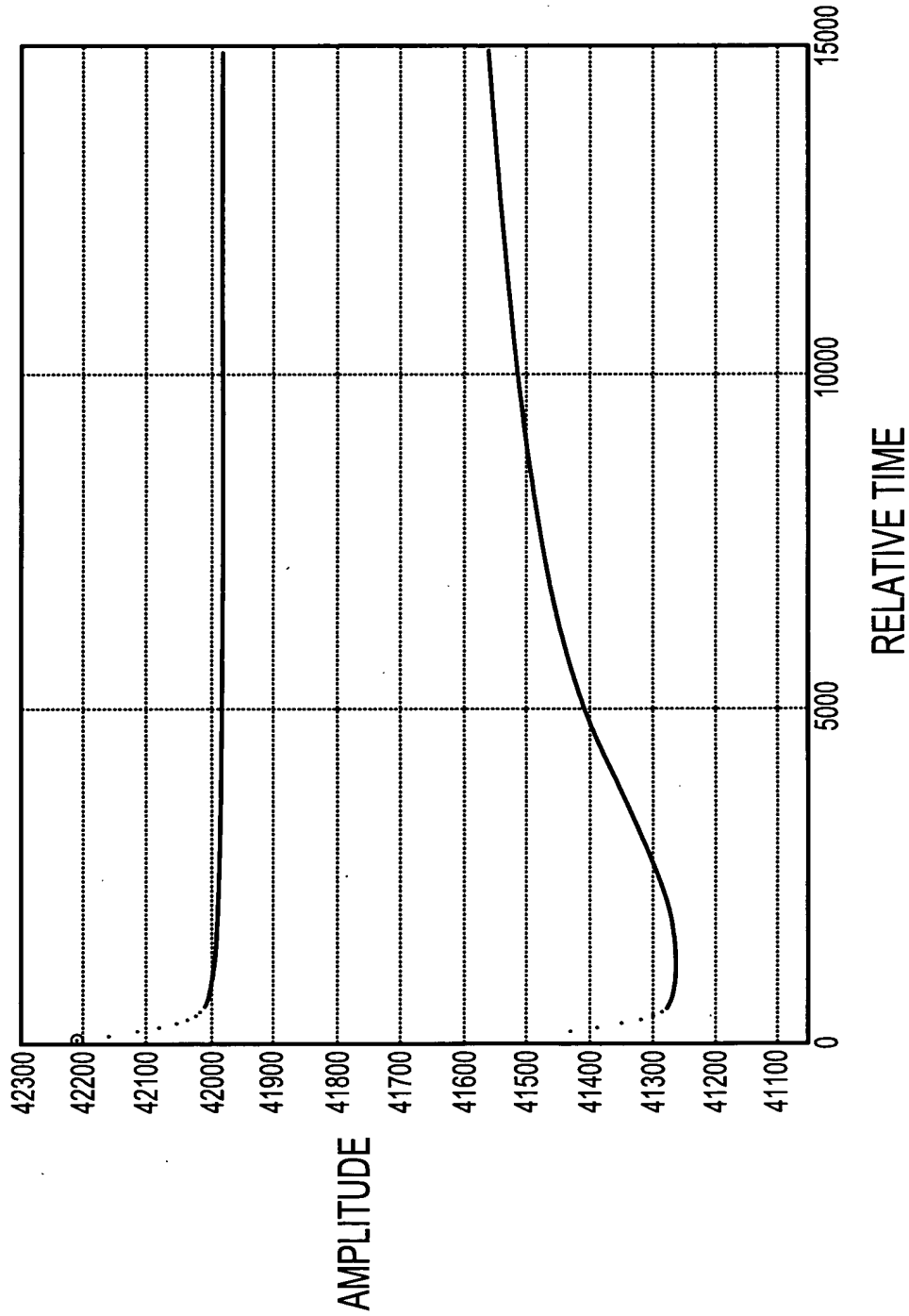
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**FIG. 22C**

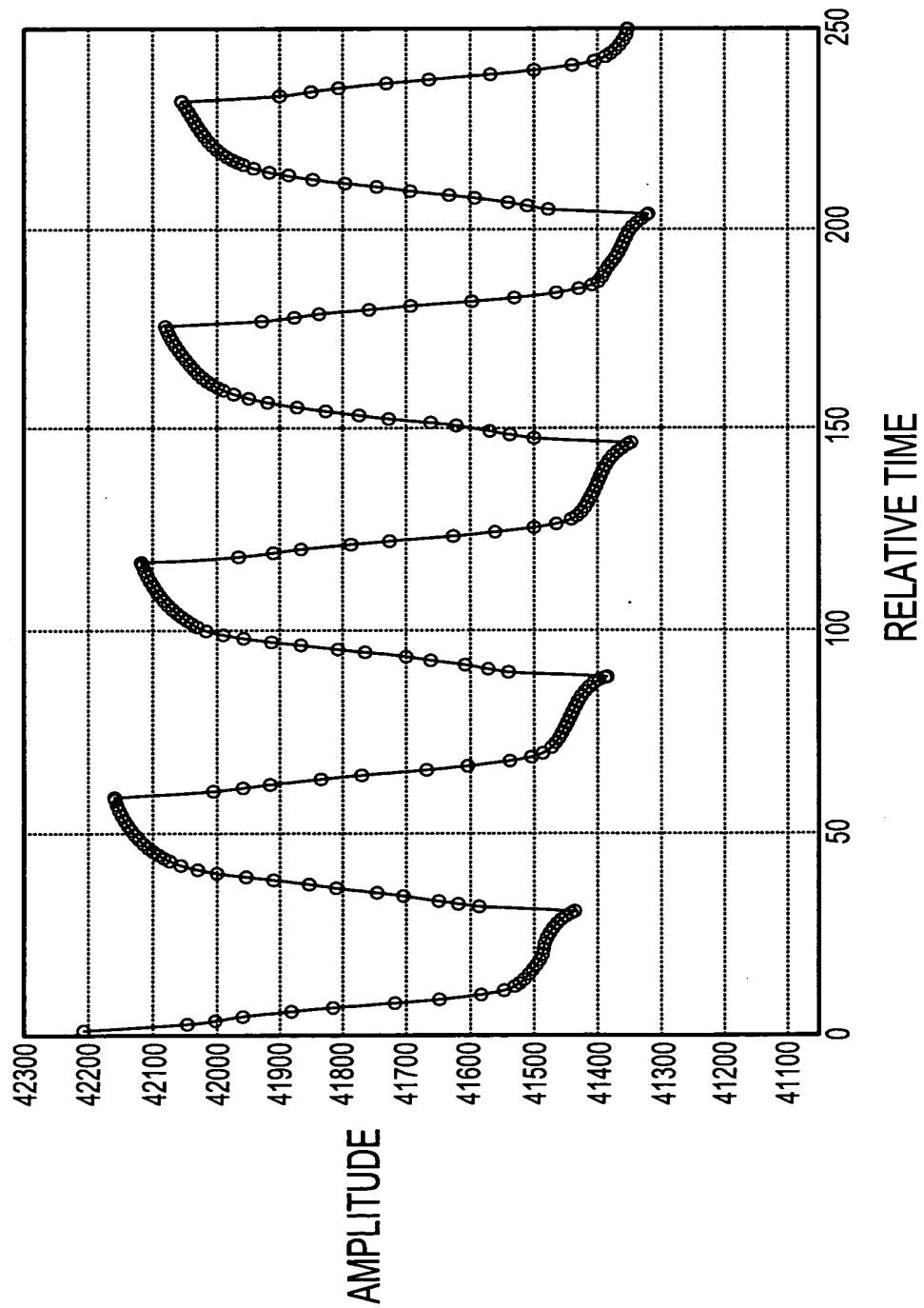


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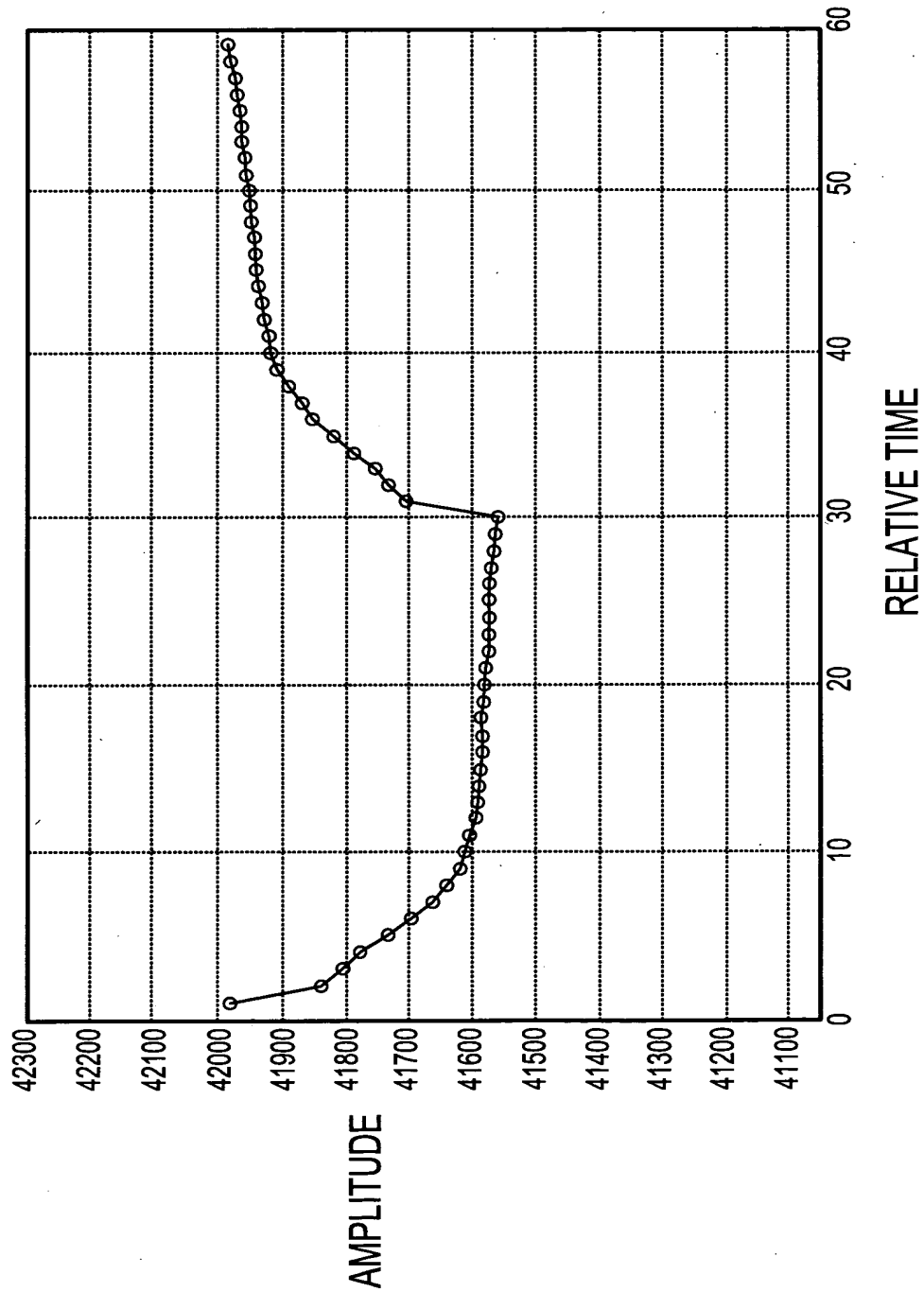
**FIG. 23A**

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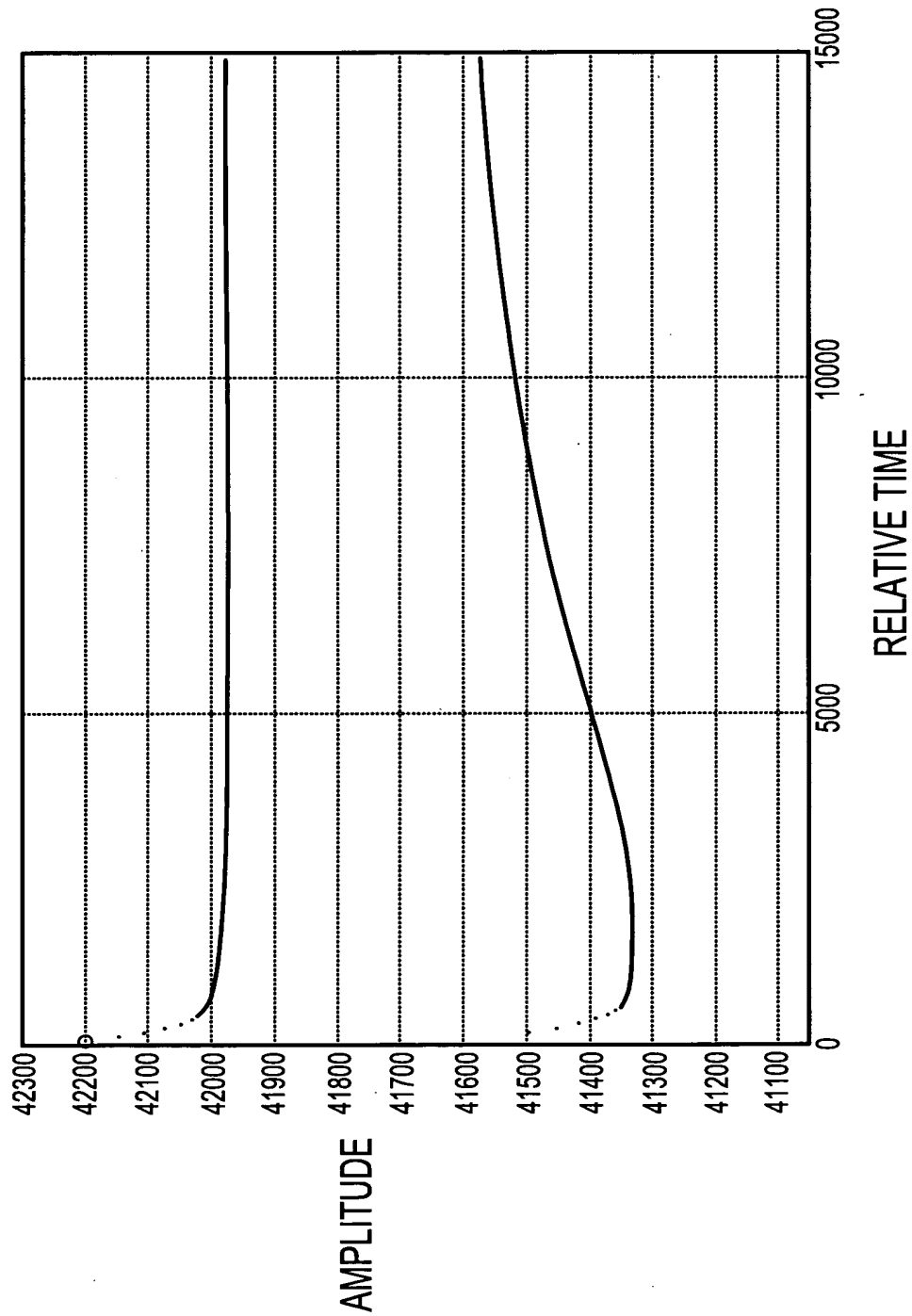
**FIG. 23B**

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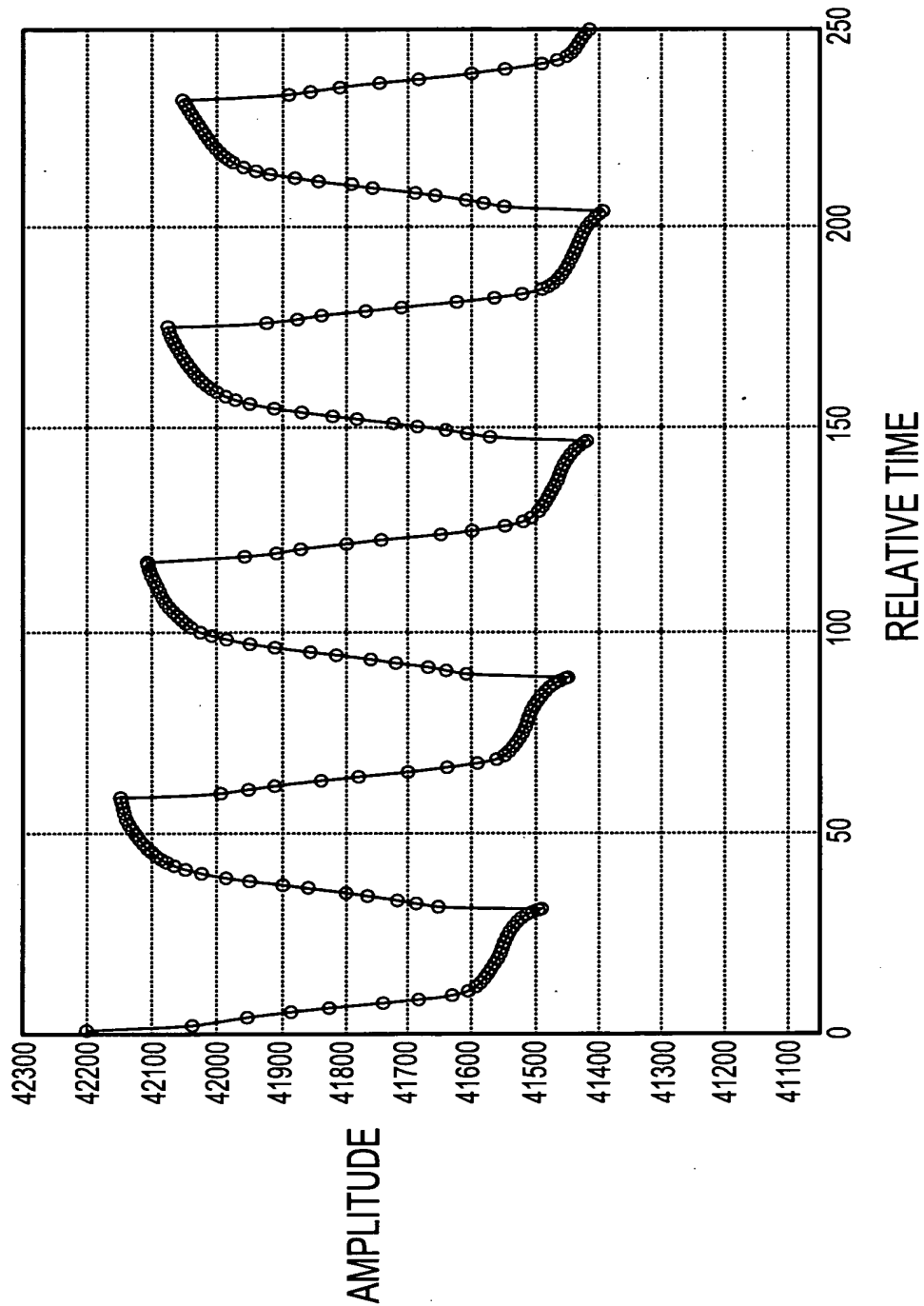
**FIG. 23C**

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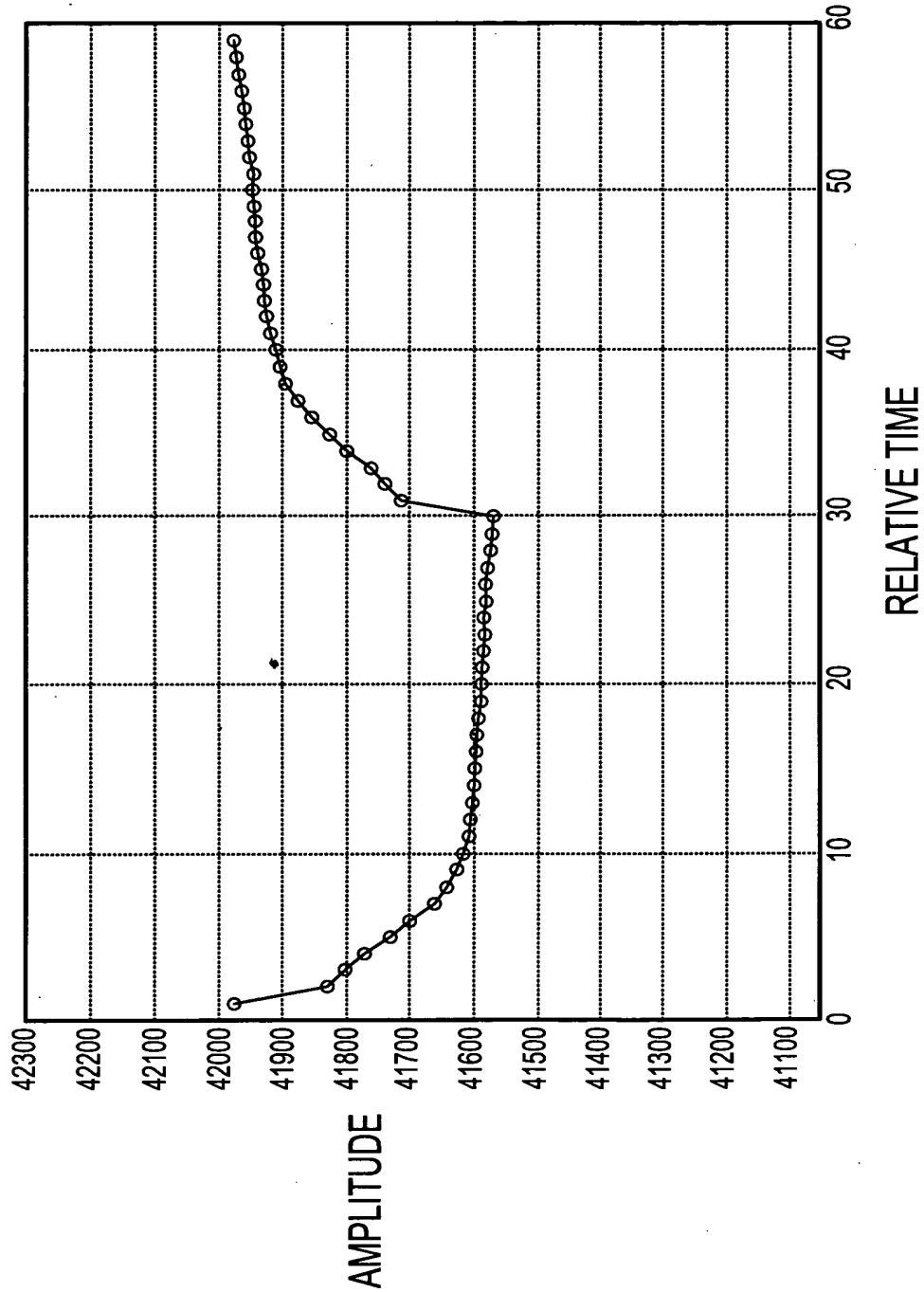
**FIG. 24A**

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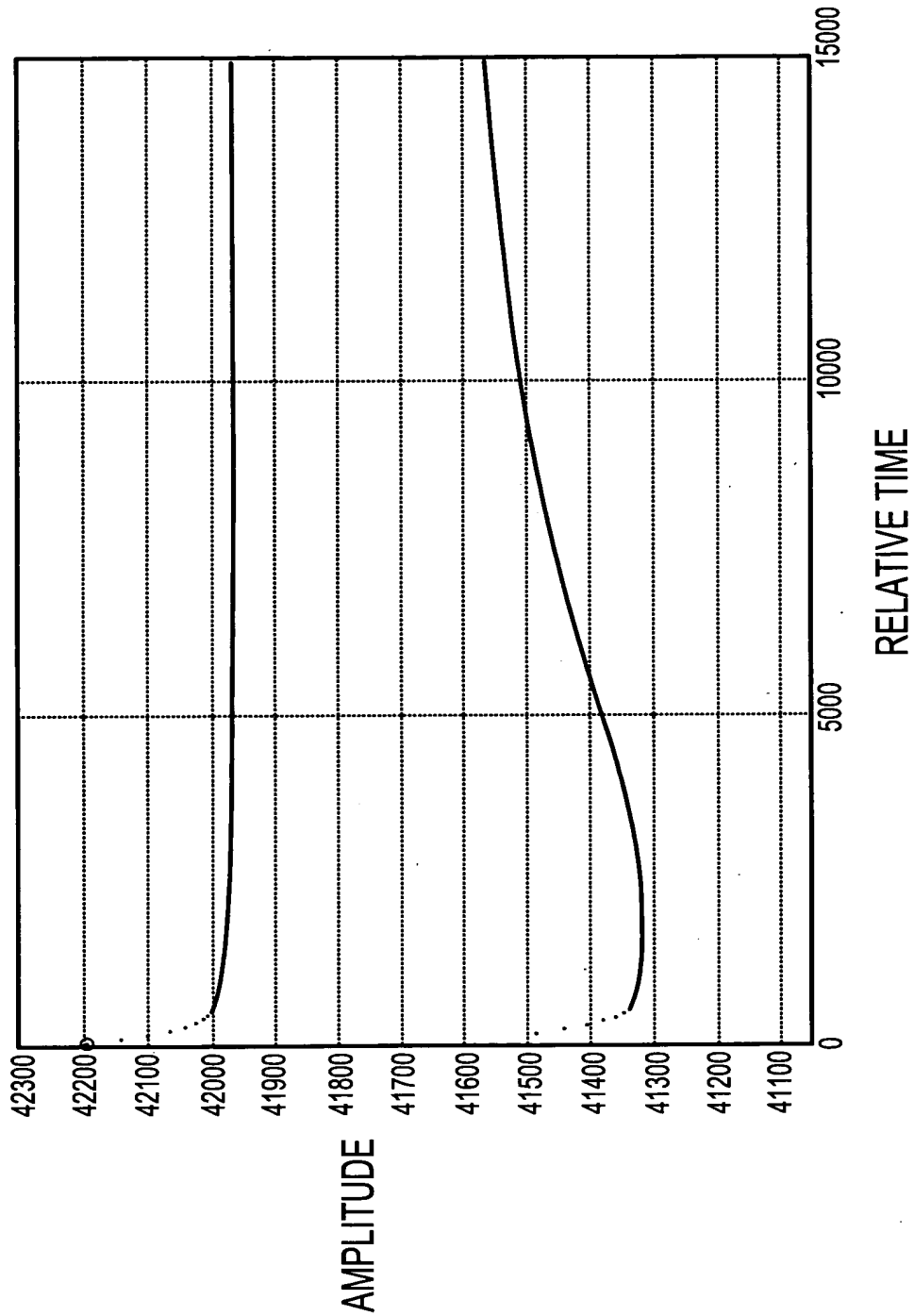
**FIG. 24B**

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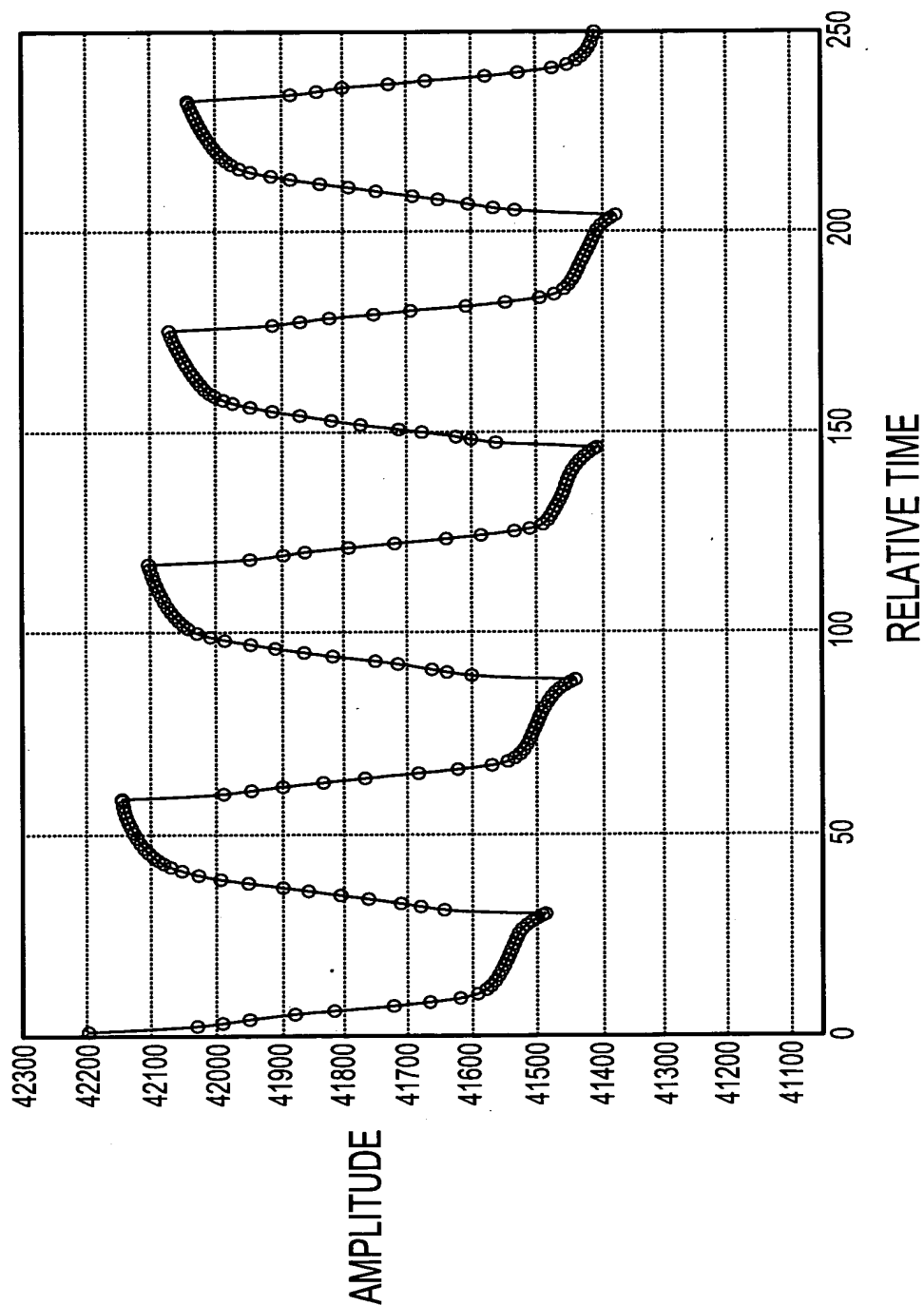
**FIG. 24C**

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**FIG. 25A**

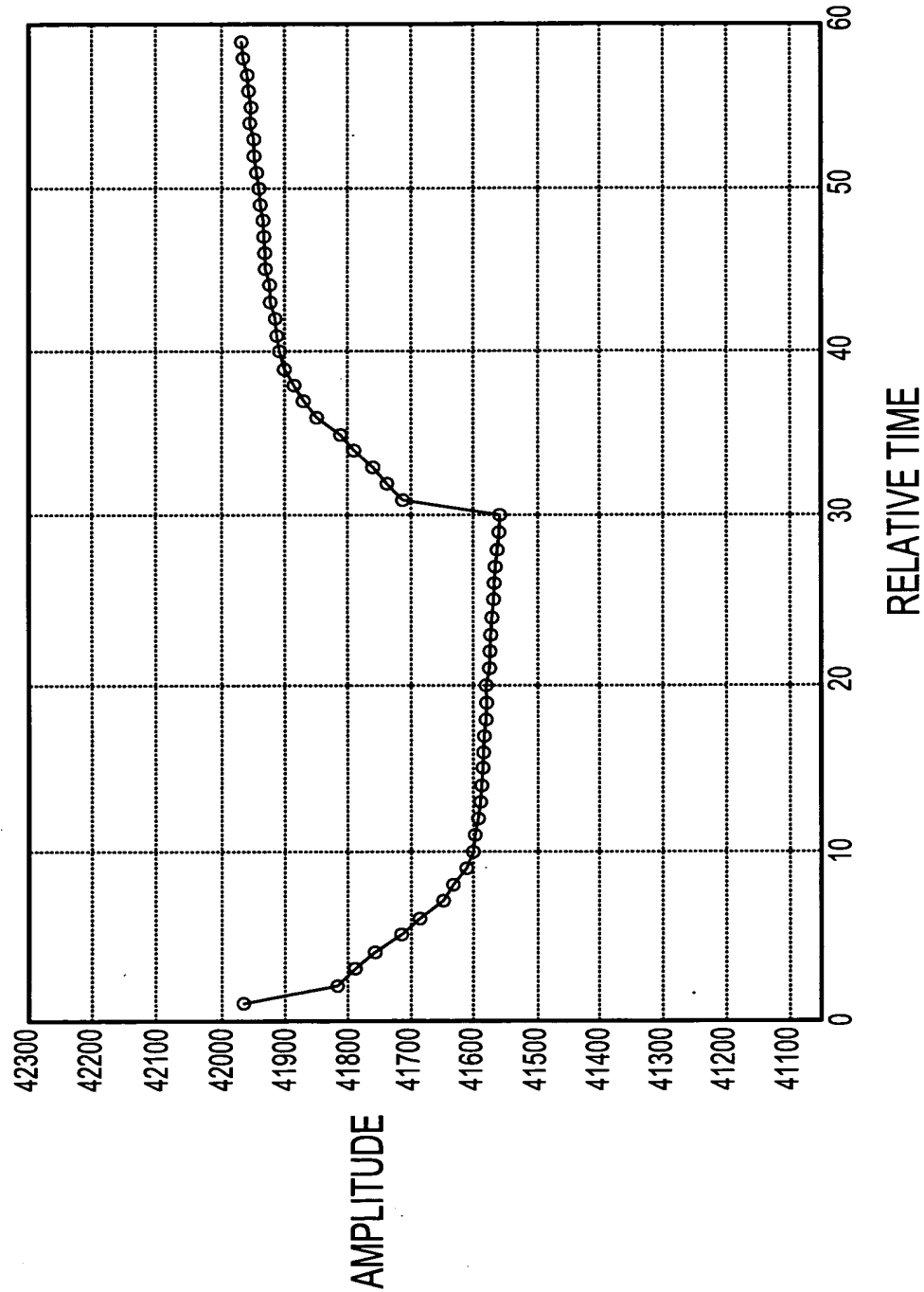
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**FIG. 25B**

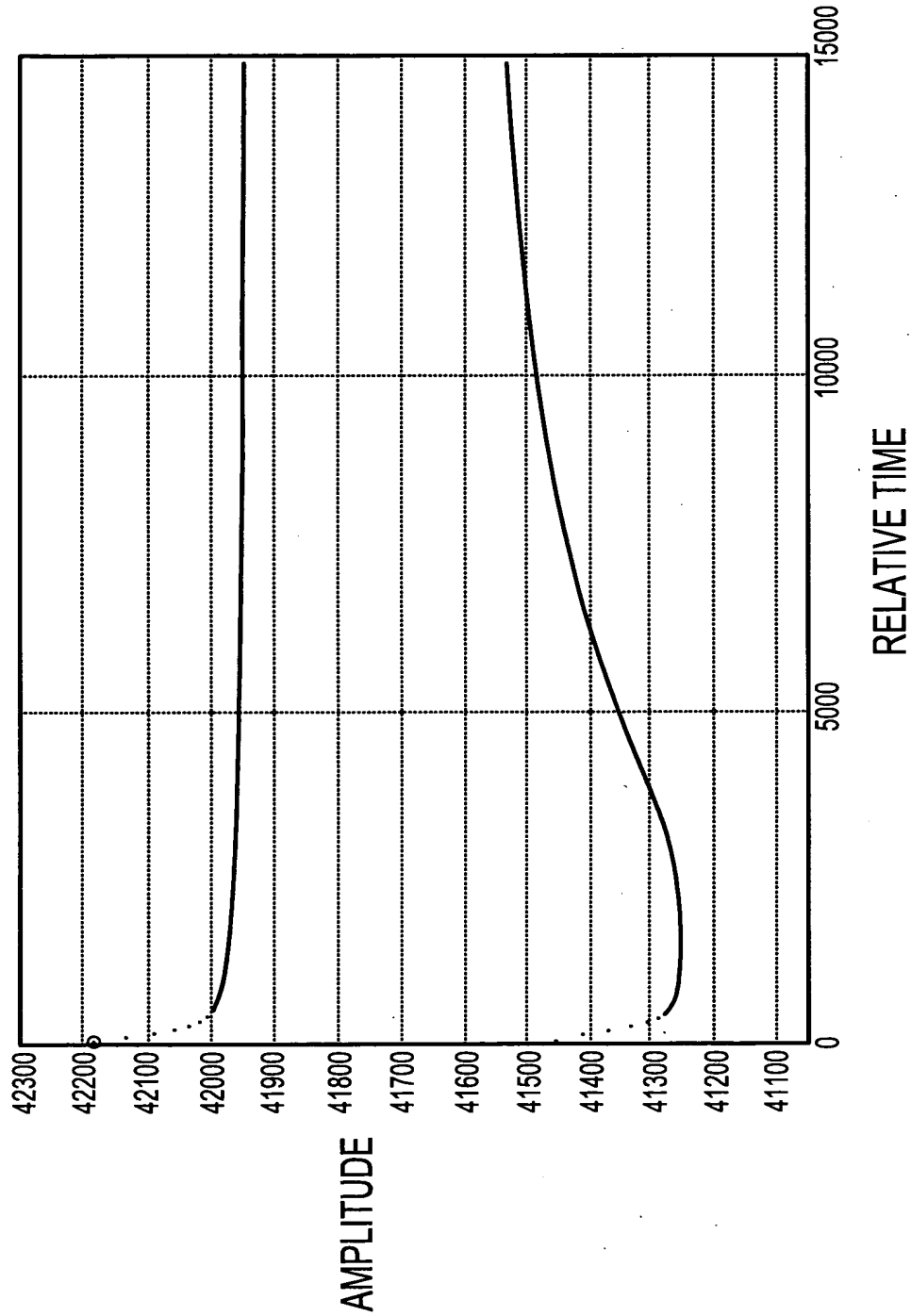


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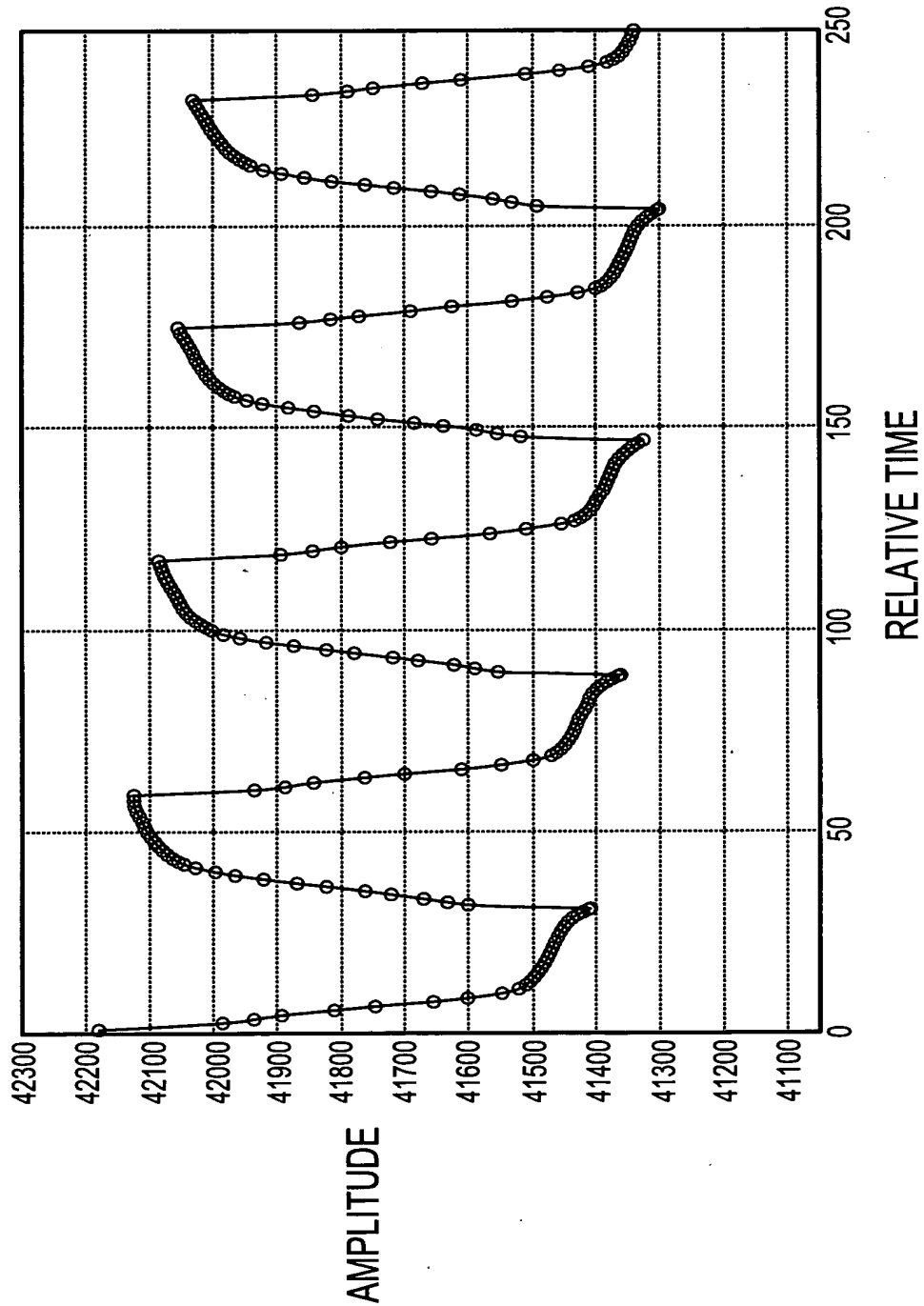
**FIG. 25C**

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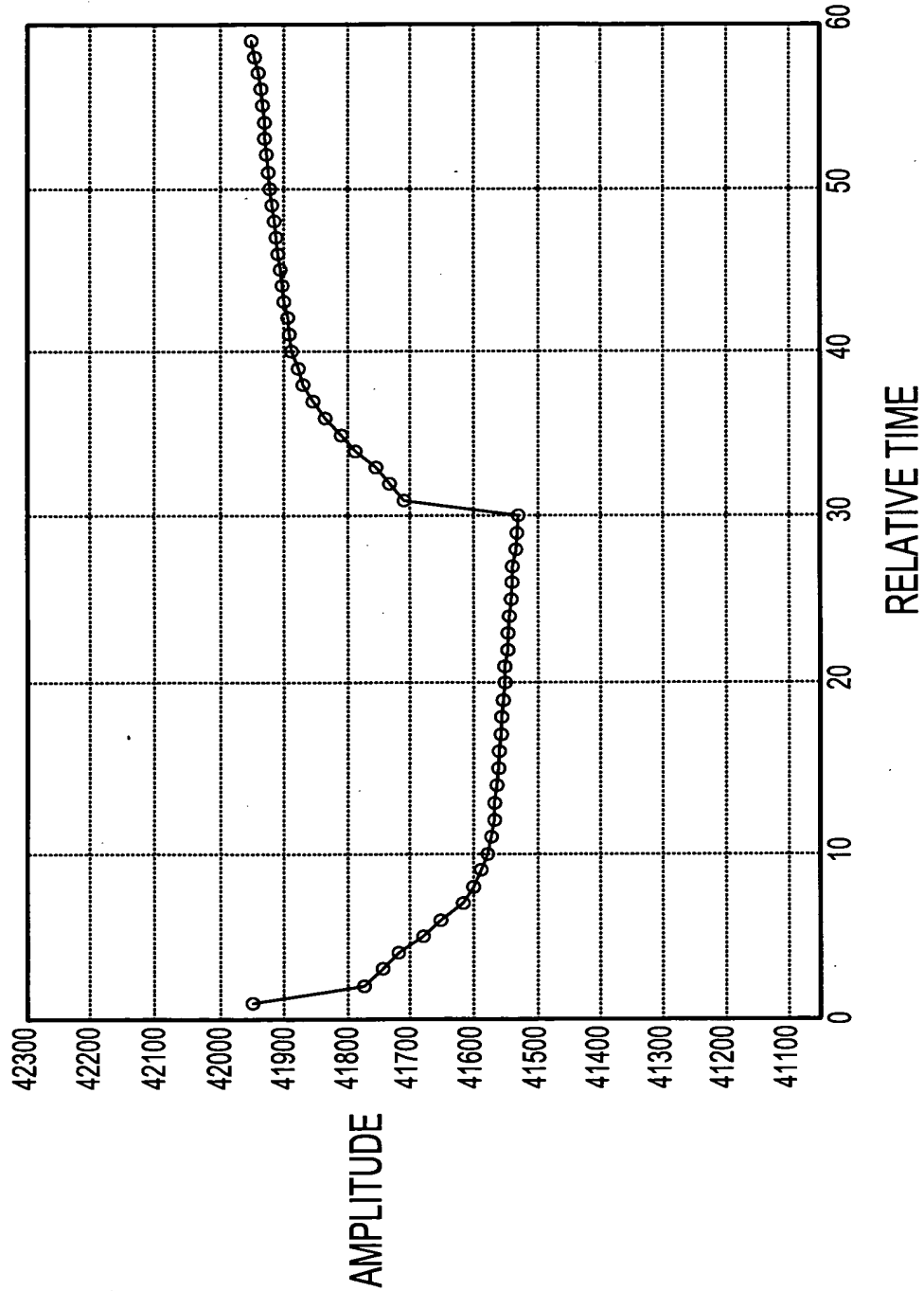
**FIG. 26A**

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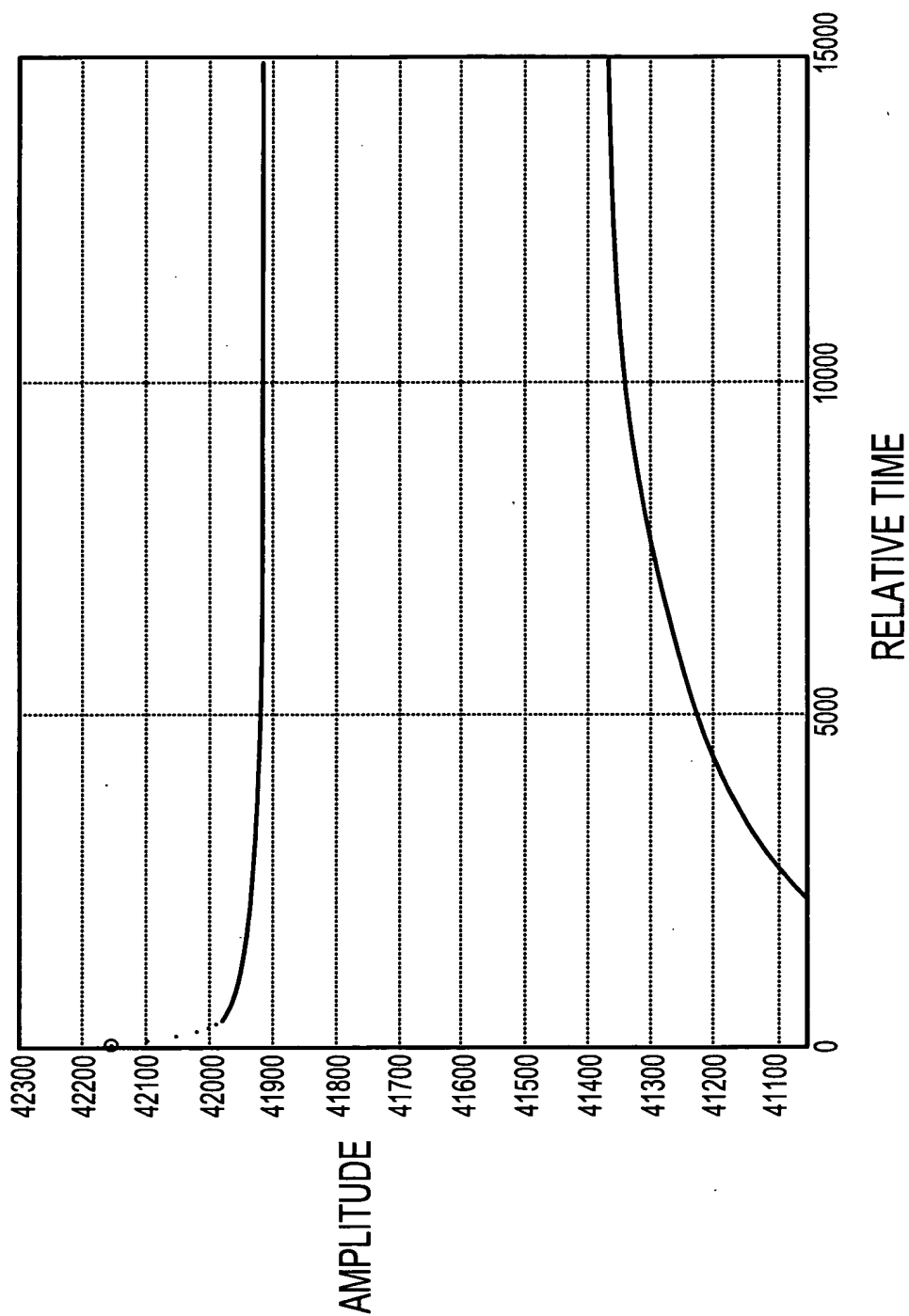
**FIG. 26B**

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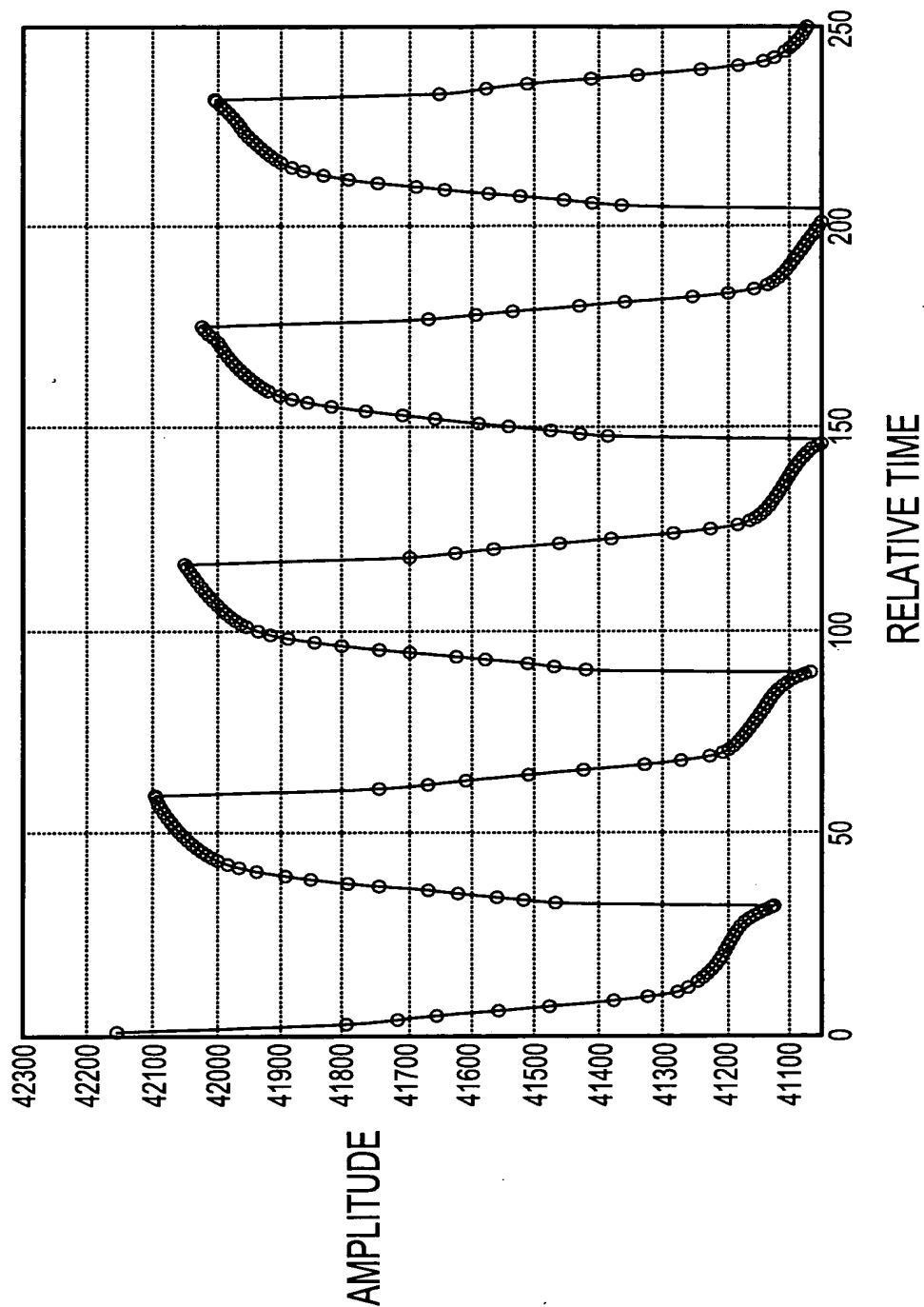
**FIG. 26C**

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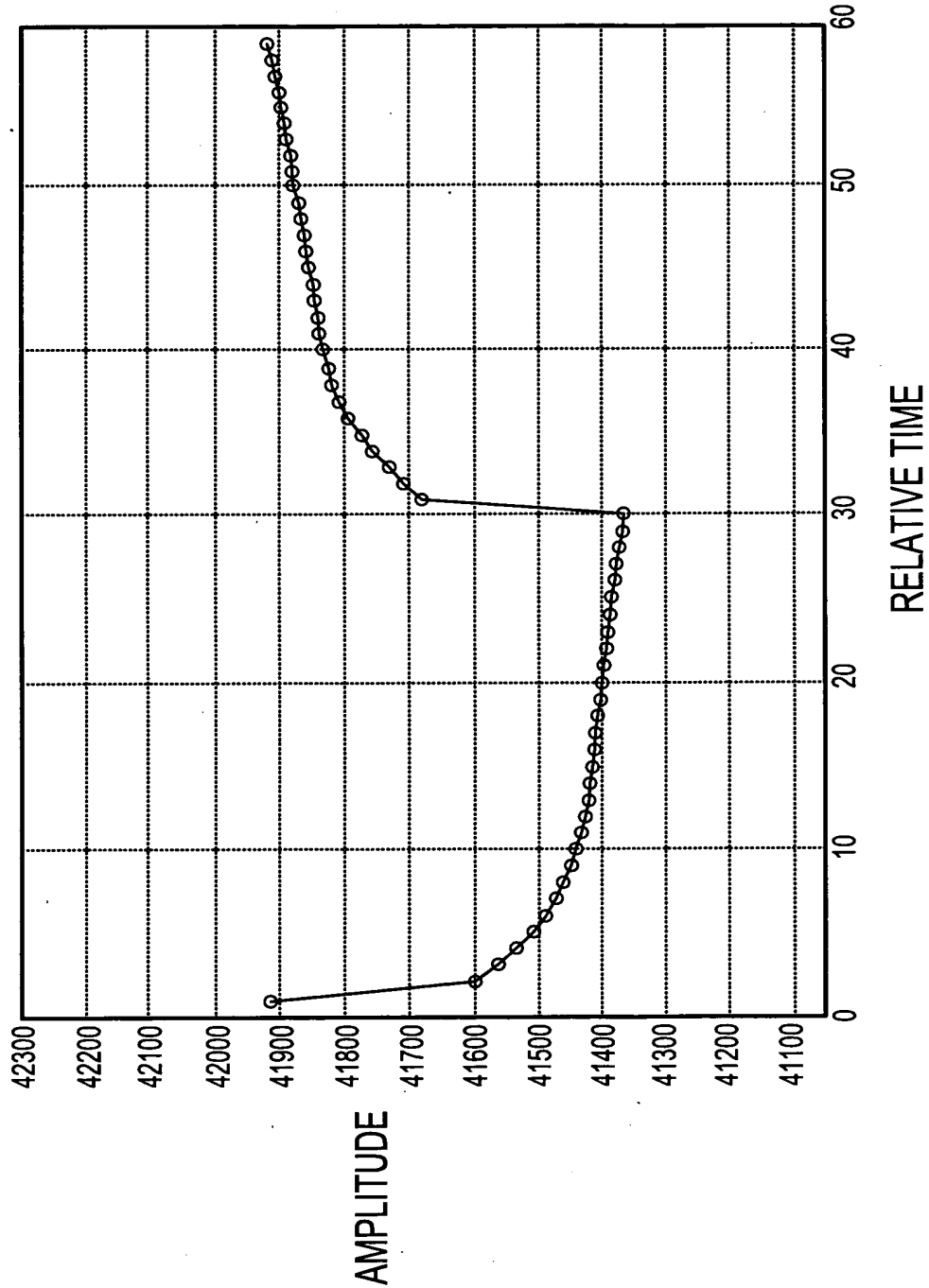
**FIG. 27A**

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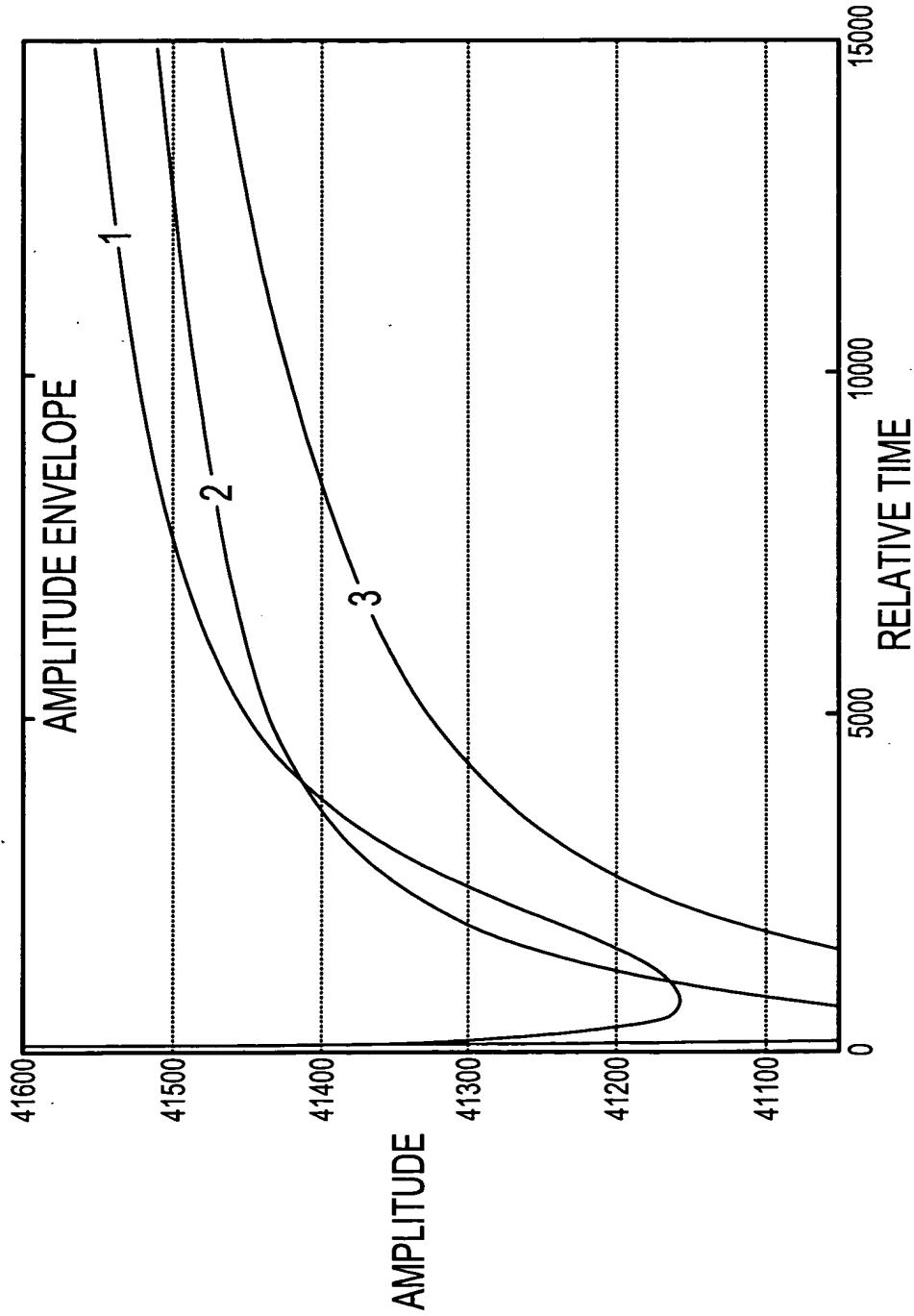
**FIG. 27B**

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**FIG. 27C**

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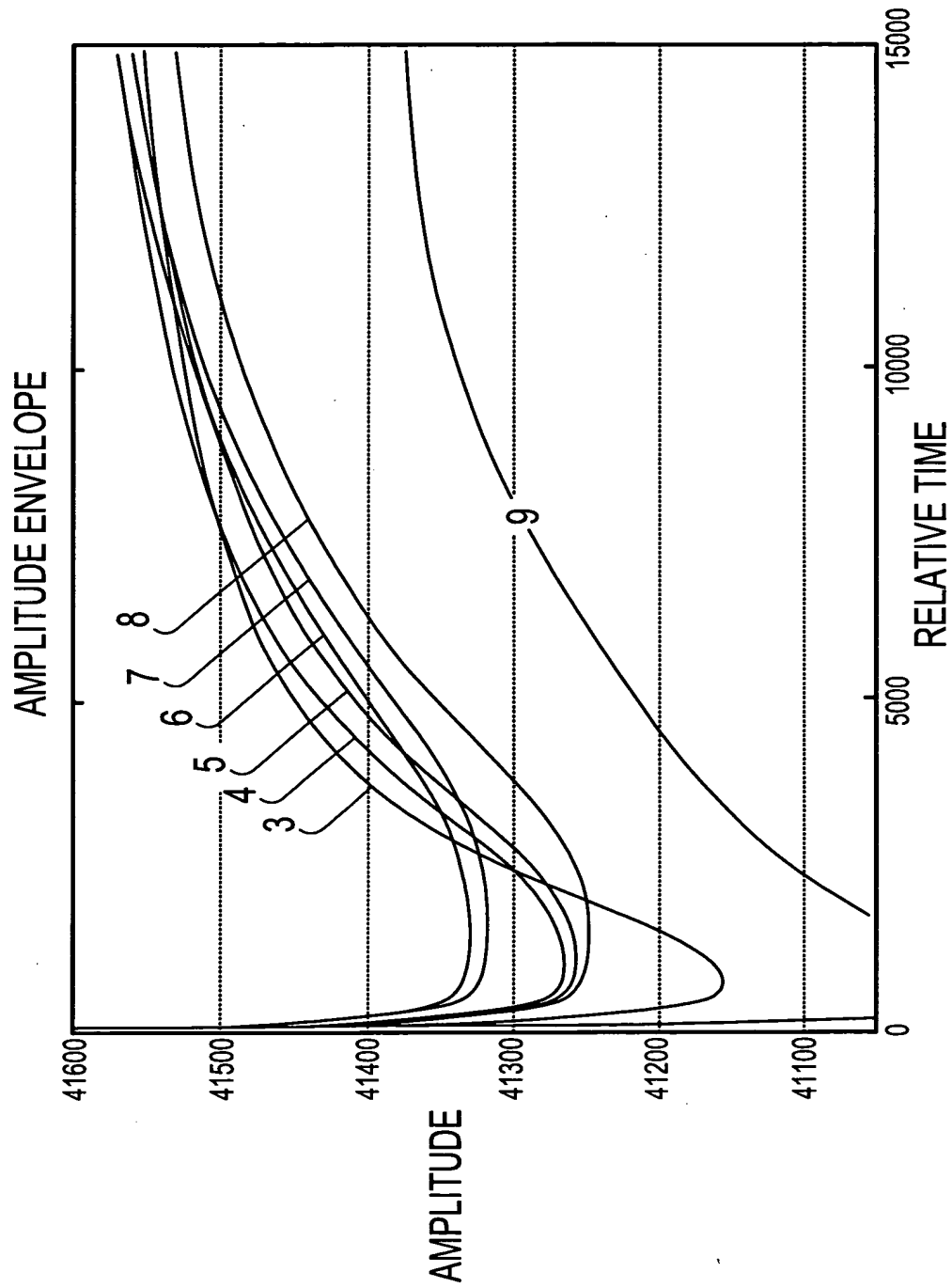


Increasing plot number indicates decreasing state of charge.

**FIG. 28A**



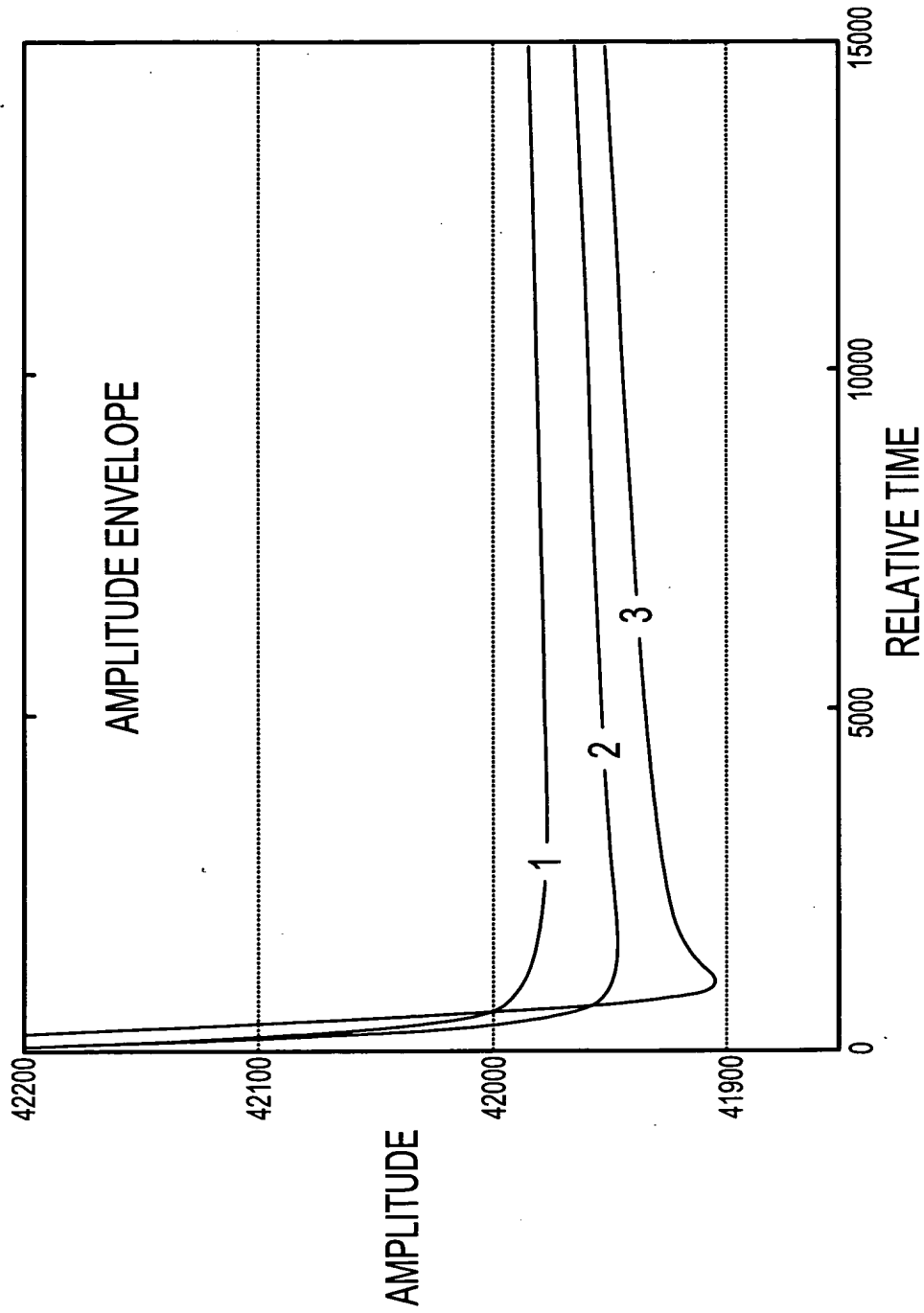
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Increasing plot number indicates decreasing state of charge.

**FIG. 28B**

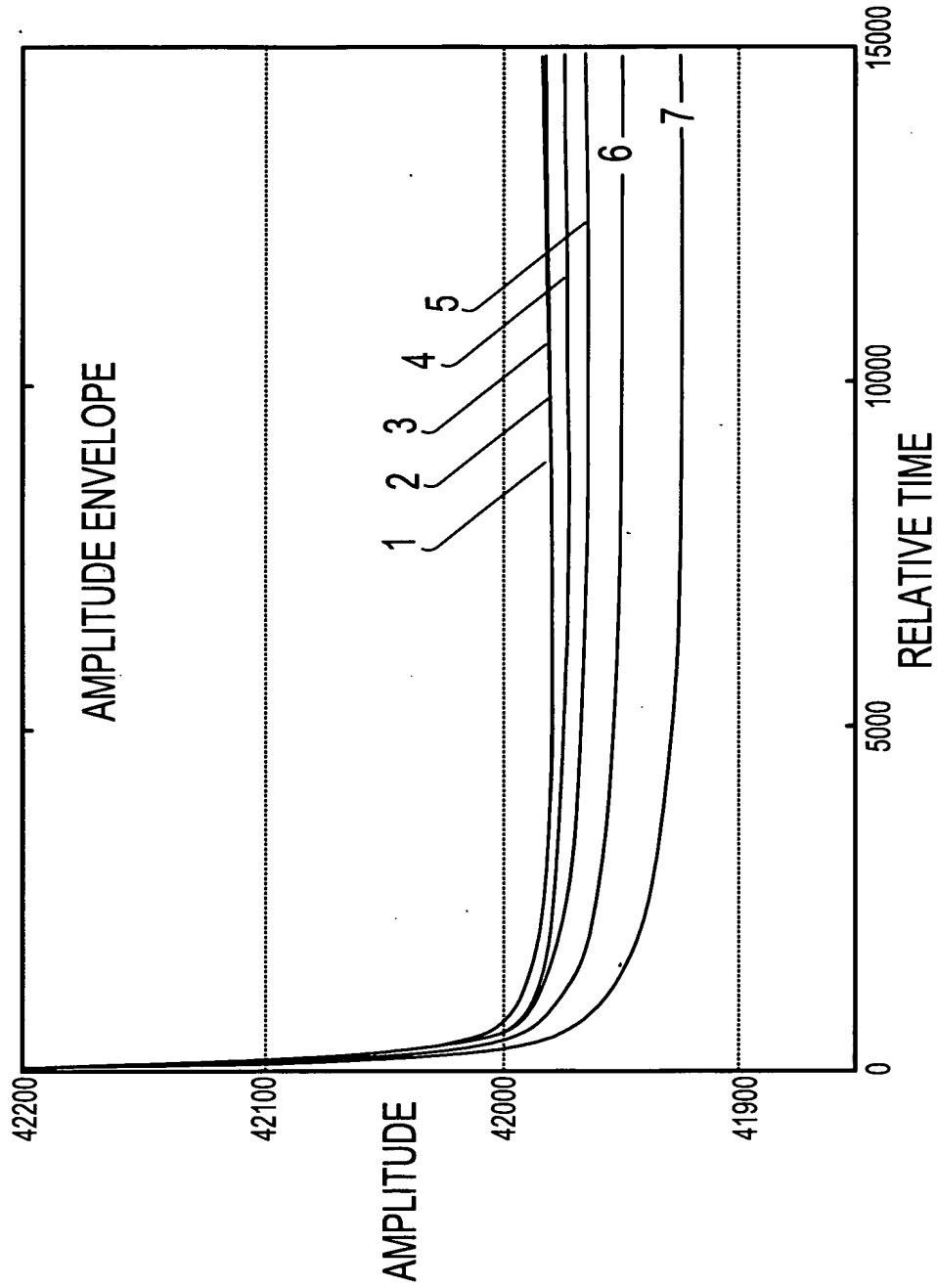
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Increasing plot number indicates decreasing state of charge.

**FIG. 29A**

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Increasing plot number indicates decreasing state of charge.

**FIG. 29B**